AUTHOR AND SUBJECT INDEXES

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JOURNAL OF IMMUNOLOGICAL METHODS

Incorporating Immunotechnology

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Scope of the Journal
The JOURNAL OF IMMUNOLOGICAL METHODS is devoted to covering techniques for: (1) quantitating and detecting antibodies and/or antigens and haptens based on antigen-antibody interactions; (2) fractionating and purifying immunoglobulins, lymphokines and other molecules of the immune system; (3) isolating antigens and other substances important in immunological processes; (4) labelling antigens and antibodies with radioactive and other markers; (5) localizing antigens and/or antibodies in tissues and cells, in vivo or in vitro; (6) detecting, enumerating and fractionating immunocompetent cells; (7) assaying for cellular immunity; (8) detecting cell-surface antigens by cell-cell interactions; (9) initiating immunity and unresponsiveness; (10) transplanting tissues; (11) studying items closely related to immunity such as complement, reticuloendothelial system and others. In addition the journal will publish articles on novel methods for analysing the organisation, structure and expression of genes for immunologically important molecules such as immunoglobulins, T cell receptors and accessory molecules involved in antigen recognition, processing and presentation. The Recombinant Technology section will contain articles relating to modification by recombinant techniques of molecules of immunological interest; isolation of novel binding proteins by phage display; gene therapy; transfection; and expression. Immunology Protocols is a section providing detailed, step-by-step descriptions of new and established techniques in immunology. Articles on the molecular biological analysis of immunologically relevant receptor binding sites are also invited. Submitted manuscripts should describe new methods of broad applicability to immunology and not simply the application of an established method to a particular substance.

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Author Index
Volumes 211–223
1998

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Journal of Immunological Methods 211–223 (1998) 3–19

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Author index to volumes 211–223 (1998)

A

Abbey, N., see Mack, K.D. (211) 79
Abken, H., see Hombach, A. (218) 53
Ackermann, M., see Baumann, S. (221) 95
Ackermann, M., see Foti, M. (213) 201
Actor, J.K., Kuffner, T., Dezzutti, C.S., Hunter, R.L. and McNicholl, J.M.
A flash-type bioluminescent immunoassay that is more sensitive than radioimaging: quantitative detection of cytokine cDNA in activated and resting human cells (211) 65
Åhrén, C., see Vetvik, H. (215) 163
Aichinger, G., see Mahiouz, D.L. (212) 149
Al-Majali, A.M., Robinson, J.P., Asem, E.K., Lamar, C., Freeman, M.J. and Saeed, A.M.
Use of flow cytometry to measure the interaction between *Escherichia coli* heat-stable enterotoxin and its intestinal receptor in mice (222) 65
Al-Rubeai, M., see Ishaque, A. (221) 43
Al-Saleh, W., see Jacobs, N. (223) 123
Alavi, A., see Routier, F.H. (213) 113
Alexopoulos, C., see Petrovas, C.J. (220) 59
Allauzen, S., see Pierson, L. (211) 97
Allsopp, C.E.M., Nicholls, S.J. and Langhorne, J.
A flow cytometric method to assess antigen-specific proliferative responses of different subpopulations of fresh and cryopreserved human peripheral blood mononuclear cells (214) 175
Allweis, T.M., see Surman, D.R. (214) 51
Alonso, F., see Bullido, R. (222) 1
Altman, E., see Harrison, B.A. (212) 29
Anderson, G. and Jenkinson, E.J.
Use of explant technology in the study of in vitro immune responses (216) 155
Andersson, C., Sandberg, L., Murby, M., Sjölander, A., Lövgren-Bengtsson, K. and Ståhl, S.
General expression vectors for production of hydrophobically tagged immunogens for direct iscom incorporation (222) 171
Andersson, J., see Loré, K. (214) 97
Andersson, U., see Loré, K. (214) 97
Andrew, M.
The use of lectin-dependent lysis for detection of cytotoxic T lymphocytes in outbred animals (213) 103
Antoniw, P., see Humphreys, D.P. (217) 1
Arai, K., Yoshinari, K., Matsumoto, K. and Misaki, H.
An ELISA to determine the biodistribution of human monoclonal antibody in tumor-xenografted SCID mice (217) 79
Araki, T., see Ikeda, K. (215) 95
Arason, G.J., D'Ambrogio, M.S., Víkingsdóttir, T., Sigfússon, Á. and Valdimarsson, H.
Enzyme immunoassays for measuring complement-dependent prevention of immune precipitation (PIP) and solubilization of preformed antigen–antibody complexes (SOL) (223) 37
Arason, G.J., see Rafnar, B.O. (211) 171
Arimilli, S., Deshpande, S.V. and Nag, B.
Identification of core structure and critical T cell receptor contact residues in an antigenic peptide by measuring acidification rates (212) 49
Armbruster, C., see Steindl, F. (217) 143
Armstrong, L.S., see López-Guajardo, C.C. (215) 179
Arudchandran, R., Brown, M.J., Song, J.S., Wank, S.A., Haleem-Smith, H. and Rivera, J.
Polyethylene glycol-mediated infection of non-permissive mammalian cells with semliki forest virus: application to signal transduction studies (222) 197
Asano, M., Saito, M., Fujita, H., Wada, M., Kobayashi, K., Vaerman, J.-P. and Moro, I.
Molecular maturation and functional expression of mouse polymeric immunoglobulin receptor (214) 131
Asem, E.K., see Al-Majali, A.M. (222) 65
Aubert, M., see Cliquet, F. (212) 79
Audrain, M.A.P., Reumaux, D., Gerson, F., Duthilleul, P., Wiik, A., Muller, J.-Y. and Esnault, V.L.M.
Contamination of commercially purified myeloperoxidase preparations by lactoferrin (222) 219
Austyn, J.M., see Suri, R.M. (214) 149
Axford, J.S., see Routier, F.H. (213) 113
Ayliffe, M.J., see Richardson, M.P. (219) 187
Ayouba, A., see Lacroix-Desmazes, S. (216) 117

B

Bablitz, B., see Mahmudi-Azer, S. (217) 113
Badley, R.A., see Williams, S.C. (213) 1
Baker, M.D., see Ng, P. (214) 81

Bakker-Woudenberg, I.A.J.M., see De Bruijn, M.F.T.R. (217) 27
Balázs, M., Horváth, G. and Balogh, P.
Simple determination of donor/host origin and donor leukocyte subsets in rat–mouse chimeras (218) 117
Baldamus, C.A., see Stachowski, J. (213) 145
Balogh, P., see Balázs, M. (218) 117
Baly, D.L., see Rodriguez, C.R. (219) 45
Barak, V., see Bishara, A. (215) 187
Barnes, C., see Moran, E. (219) 151
Baron, A.T., Lafky, J.M., Connolly, D.C., Peoples, J., O'Kane, D.J., Suman, V.J., Boardman, C.H., Podratz, K.C. and Maihle, N.J.
A sandwich type Acridinium-Linked ImmunoSorbent Assay (ALISA) detects soluble ErbB1 (sErbB1) in normal human sera (219) 23
Barth, C., see Stachowski, J. (213) 145
Bassendine, M.F., see Case, M.C. (223) 93
Bassetti, D., see Bizzaro, N. (219) 99
Baumann, S., Grob, P., Stuart, F., Pertlik, D., Ackermann, M. and Suter, M.
Indirect immobilization of recombinant proteins to a solid phase using the albumin binding domain of streptococcal protein G and immobilized albumin (221) 95
Beckmann, C., Haase, B., Timmis, K.N. and Tesar, M.
Multifunctional g3p-peptide tag for current phage display systems (212) 131
Behrendt, N., see List, K. (222) 125
Bein, G., see Frohn, C. (218) 155
Bekris, L., see Schranz, D.B. (213) 87
Bellaby, T., see Durrani, Z. (220) 93
Bender, A., see Thurner, B. (223) 1
Benias, P., see Nociari, M.M. (213) 157
Berki, T. and Németh, P.
Novel method for in vitro depletion of T cells by monoclonal antibody-targeted photosensitization (211) 139
Berki, T., Kumánovics, G., Kumánovics, A., Falus, A., Újhelyi, E. and Németh, P.
Production and flow cytometric application of a monoclonal anti-glucocorticoid receptor antibody (214) 19
Bernabeu, C., see Li, C.G. (218) 85
Bernal, A.L., see Strong, P. (220) 139
Bernard, H., see Negroni, L. (220) 25
Bews, J.P.A., see Jung, T. (217) 41
Bhalgat, M.K., Haugland, R.P., Pollack, J.S., Swan, S. and Haugland, R.P.
Green- and red-fluorescent nanospheres for the detection of cell surface receptors by flow cytometry (219) 57
Bicamumpaka, C. and Pagé, M.
Development of a fluorescence polarization immunoassay (FPIA) for the quantitative determination of paclitaxel (212) 1
Bigley, N.J., see Mason, K.M. (211) 147
Bishara, A., Malka, R., Brautbar, C., Barak, V., Cohen, I. and Kedar, E.
Cytokine production in human mixed leukocyte reactions performed in serum-free media (215) 187
Bizzaro, N., Tozzoli, R., Tonutti, E., Piazza, A., Manoni, F., Ghirardello, A., Bassetti, D., Villalta, D., Pradella, M. and Rizzotti, P.
Variability between methods to determine ANA, anti-dsDNA and anti-ENA autoantibodies: a collaborative study with the biomedical industry (219) 99
Bjorkman, P.J., see Lebrón, J.A. (222) 59
Black, C.L. and Reynolds, E.C.
An ELISA for a multiphosphorylated peptide, α_{s1}-casein(59–79) (214) 63
Blaheta, R.A., Kronenberger, B., Woitaschek, D., Weber, S., Scholz, M., Schuldes, H., Encke, A. and Markus, B.H.
Development of an ultrasensitive in vitro assay to monitor growth of primary cell cultures with reduced mitotic activity (211) 159
Blasco, R., see Domínguez, J. (220) 115
Bloemers, H.P.J., see Loomans, E.E.M.G. (221) 119
Bloemers, H.P.J., see Loomans, E.E.M.G. (221) 131
Blondeau, C., see Raux, M. (222) 111
Blum, J.S., see Turvy, D.N. (212) 9
Blumenthal, M., see Pierson, L. (211) 97
Boardman, C.H., see Baron, A.T. (219) 23
Boder, E.T., see Cho, B.K. (220) 179
Bohbot, A., see Tiberghien, F. (223) 63
Böhm, C., Hanski, M.-L., Gratchev, A., Mann, B., Moyer, M.P., Riecken, E.-O. and Hanski, C.
A modification of the JAM test is necessary for a correct determination of apoptosis induced by FasL$^+$ adherent tumor cells (217) 71
Bokhout, B.A., see Van Milligen, F.J. (213) 183
Boleti, E., see Verma, R. (216) 165
Boluda, L., Sastre, J., Casanovas, M. and Fernández-Caldas, E.
Determination of Ole e 1 by enzyme immunoassay and scanning densitometry. Validation by skin-prick testing (223) 17
Bond, A., see Routier, F.H. (213) 113
Bone, N., see Fenton, M. (212) 41
Boniver, J., see Jacobs, N. (223) 123
Bono, M.R., Reyes, L.I. and Rosemblatt, M.
A flow cytometric procedure for the quantification of cell adhesion in complex mixtures of cells (223) 27
Boom, W.H., see Ramachandra, L. (213) 53
Boon, B., see Hilgers, L.A.Th. (218) 105
Boon, B., see Hilgers, L.A.Th. (218) 95
Borrebaeck, C.A.K., see Strandh, M. (214) 73
Borriello, S.P., see Logan, R.P.H. (213) 19
Borysiewicz, L.K., see Faulkner, L. (221) 1
Bouchez, H., see Raux, M. (222) 111
Brady, J.L., see Martin, R.M. (212) 187
Branaa, P., see Pauillac, S. (220) 105
Brandtzaeg, P.
The increasing power of immunohistochemistry and immunocytochemistry (216) 49
Brautbar, C., see Bishara, A. (215) 187
Breen, E.C., see Shen, L.-P. (215) 123
Brennan, F.R., see Durrani, Z. (220) 93
Brewster, J.D. and Mazenko, R.S.
Filtration capture and immunoelectrochemical detection for rapid assay of *Escherichia coli* O157:H7 (211) 1
Broeren, C.P.M., see Damoiseaux, J.G.M.C. (217) 185
Bromelow, K.V., Galea-Lauri, J., O'Brien, M.E. and Souberbielle, B.E.

A highly sensitive whole blood natural killer cell assay (217) 177
Brossette, T., see Goujon, L. (218) 19
Brotman, B., see Cohard, M. (214) 121
Brown, M.J., see Arudchandran, R. (222) 197
Brune, P., see Negroni, L. (220) 25
Bugli, F., see Burioni, R. (217) 195
Bullido, R., Doménech, N., Gómez del Moral, M., Alonso, F., Ezquerra, A. and Domínguez, J.
Monoclonal antibodies 2F6/8 and 2A10/8 recognize a porcine antigen (SWC7) expressed on B cells and activated T cells (222) 1
Burioni, R., Plaisant, P., Bugli, F., Delli Carri, V., Clementi, M. and Fadda, G.
A vector for the expression of recombinant monoclonal Fab fragments in bacteria (217) 195
Burrin, J.M., see Morgan, C.L. (217) 51
Burt, A.D., see Case, M.C. (223) 93

C

Cammann, K., see Orban, M. (215) 17
Campbell, P.A., see De Bruijn, M.F.T.R. (217) 27
Canaday, D.H., see Ramachandra, L. (213) 53
Cao, W.W., see Shen, L.-P. (215) 123
Cao, Y., Christian, S. and Suresh, M.R.
Development of a bispecific monoclonal antibody as a universal immunoprobe for detecting biotinylated macromolecules (220) 85
Card, K.F., see Weidanz, J.A. (221) 59
Carla Re, M., see Gibellini, D. (221) 107
Caroline Vandevyver, , see VanderBorght, A. (223) 47
Carreño-Manjarrez, R., see Chapman, F. (219) 181
Casanovas, M., see Boluda, L. (223) 17
Case, M.C., Burt, A.D., Hughes, J., Palmer, J.M., Collier, J.D., Bassendine, M.F., Yeaman, S.J., Hughes, M.A. and Major, G.N.
Enhanced ultrasensitive detection of structurally diverse antigens using a single immuno-PCR assay protocol (223) 93
Chang, W.L., Van der Heyde, H.C. and Klein, B.S.
Flow cytometric quantitation of yeast a novel technique for use in animal model work and in vitro immunologic assays (211) 51
Chapman, A.P., see Humphreys, D.P. (217) 1
Chapman, F., Visvanathan, K., Carreño-Manjarrez, R. and Zabriskie, J.B.
A flow cytometric assay for D8/17 B cell marker in patients with Tourette's syndrome and obsessive compulsive disorder (219) 181
Chappel, J.A., He, M. and Kang, A.S.
Modulation of antibody display on M13 filamentous phage (221) 25
Chatel, J.M., see Negroni, L. (220) 25
Chen, C., see Kim, M.G. (213) 169
Cheng, S., see Kaptein, W.A. (217) 103
Chinain, M., see Pauillac, S. (220) 105
Cho, B.K., Kieke, M.C., Boder, E.T., Wittrup, K.D. and Kranz, D.M.
A yeast surface display system for the discovery of ligands that trigger cell activation (220) 179
Christian, S., see Cao, Y. (220) 85
Christofidis, I., see Kakabakos, S.E. (222) 183
Chumanevich, A.A., see Kravchuk, Z.I. (217) 131
Clayette, P., see Goujon, L. (218) 19
Cleary, I., see Moran, E. (219) 151
Clement, G., see Negroni, L. (220) 25
Clementi, M., see Burioni, R. (217) 195
Clinchy, B. and Vitetta, E.S.
The use of an anti-CD3 immunotoxin to prevent the development of lymphoproliferative disease in SCID/PBL mice (218) 141
Cliquet, F., Aubert, M. and Sagné, L.
Development of a fluorescent antibody virus neutralisation test (FAVN test) for the quantitation of rabies-neutralising antibody (212) 79
Clynes, M., see Moran, E. (219) 151
Cockayne, A., see Logan, R.P.H. (213) 19
Cohard, M., Liu, Q., Perkus, M., Gordon, E., Brotman, B. and Prince, A.M.
Hepatitis C virus-specific CTL responses in PBMC from chimpanzees with chronic hepatitis C: determination of CTL and CTL precursor frequencies using a recombinant canarypox virus (ALVAC) (214) 121
Cohen, I., see Bishara, A. (215) 187
Colinas, R.J. and Walsh, A.C.
Cell separation based on the reversible interaction between calmodulin and a calmodulin-binding peptide (212) 69
Collier, J.D., see Case, M.C. (223) 93
Connolly, D.C., see Baron, A.T. (219) 23
Coombe, D.R., Nakhoul, A.-M., Stevenson, S.M., Peroni, S.E. and Sanderson, C.J.
Expressed luciferase viability assay (ELVA) for the measurement of cell growth and viability (215) 145
Cooper, D.K.C., see Neethling, F.A. (222) 31
Cornelissen, J.B.W.J., see Van Milligen, F.J. (213) 183
Coutinho, A., see Lacroix-Desmazes, S. (216) 117
Cox, M.A., see Jenh, C.-H. (217) 87
Creminon, C., see Goujon, L. (218) 19
Czerwinski, D., see Haimovich, J. (214) 113

D

Dailey, P.J., see Shen, L.-P. (215) 123
D'Ambrogio, M.S., see Arason, G.J. (223) 37
Damoiseaux, J.G.M.C., Theunissen, R., Broeren, C.P.M., Van Breda Vriesman, P.J.C. and Duijvestijn, A.M.

Comparison of detection techniques for cytokine reverse transcriptase polymerase chain reaction; digoxigenin-labeled polymerase chain reaction permits sensitive detection of cytokine mRNA in rat heart allografts (217) 185
Daniloff, G.Y., see Leigh, S.D. (220) 169
Dannenberg, C., see Frohn, C. (218) 155
Danø, K., see List, K. (222) 125
Darke, B.M., Jackson, S.K., Hanna, S.M. and Fox, J.D.
Detection of human TNF-α mRNA by NASBA™ (212) 19
Das, K.C. and White, C.W.
Detection of thioredoxin in human serum and biological samples using a sensitive sandwich ELISA with digoxigenin-labeled antibody (211) 9
Das, R.G., see Mire-Sluis, A.R. (216) 103
Daubenberger, C., see Pluschke, G. (215) 27
Davies, E.G., see Richardson, M.P. (219) 187
Davis, C., see Unson, M.D. (214) 29
Davis, P.J., see Williams, S.C. (213) 1
De Bruijn, M.F.T.R., Van Vianen, W., Ploemacher, R.E., Bakker-Woudenberg, I.A.J.M., Campbell, P.A., Van Ewijk, W. and Leenen, P.J.M.
Bone marrow cellular composition in *Listeria monocytogenes* infected mice detected using ER-MP12 and ER-MP20 antibodies: a flow cytometric alternative to differential counting (217) 27
De Bruyère, M., see Winandy, M. (215) 81
De Koning-Ward, T.F., Grant, T., Oppedisano, F. and Robins-Browne, R.M.
Effect of bacterial invasion of macrophages on the outcome of assays to assess bacterium–macrophage interactions (215) 39
De Lange, W., see Van Crevel, R. (222) 145
Delli Carri, V., see Burioni, R. (217) 195
Del Mar Lorenzo, M., see Domínguez, J. (220) 115
Delvenne, P., see Jacobs, N. (223) 123
Delwart, E., see Shen, D.-F. (215) 113
Den, W., Sompuram, S.R., Sarantopoulos, S. and Sharon, J.
A bidirectional phage display vector for the selection and mass transfer of polyclonal antibody libraries (222) 45
Deneys, V., see Winandy, M. (215) 81
Deng, X., see Wang, J.M. (220) 1
Dereudre-Bosquet, N., see Goujon, L. (218) 19
Deshpande, S.V., see Arimilli, S. (212) 49
Dewson, G., see Walsh, G.M. (217) 153
Dezzutti, C.S., see Actor, J.K. (211) 65
Di Canzio, J., see Frey, A. (221) 35
Didier, A., see Tiberghien, F. (223) 63
Dieckmann, D., see Thurner, B. (223) 1
Diehl, V., see Hombach, A. (218) 53
Dimmock, N.J., see Durrani, Z. (220) 93
(DISS), D.I.S.S., see Schranz, D.B. (213) 87
Doménech, N., see Bullido, R. (222) 1
Domínguez, J., Del Mar Lorenzo, M. and Blasco, R.
Green fluorescent protein expressed by a recombinant vaccinia virus permits early detection of infected cells by flow cytometry (220) 115
Domínguez, J., see Bullido, R. (222) 1
Dormont, D., see Goujon, L. (218) 19
Doukhan, L., see Shen, D.-F. (215) 113
Duijvestijn, A.M., see Damoiseaux, J.G.M.C. (217) 185
Duliousl, E., see Raux, M. (222) 111
Durrani, Z., McInerney, T.L., McLain, L., Jones, T., Bellaby, T., Brennan, F.R. and Dimmock, N.J.
Intranasal immunization with a plant virus expressing a peptide from HIV-1 gp41 stimulates better mucosal and systemic HIV-1-specific IgA and IgG than oral immunization (220) 93
Duthilleul, P., see Audrain, M.A.P. (222) 219
Dworeck, C., see Frahm, S.O. (211) 43

E

Ebel, B., see Frohn, C. (218) 155
Eda, S., see Ohtani, K. (222) 135
Edwards, A., see Weidanz, J.A. (221) 59
Eibl, M.M., see Gulle, H. (214) 199
Eisen, H.N., see Walter, J.B. (214) 41
Elbagarri, A., see Mack, K.D. (211) 79
Eliades, P., Karagouni, E., Stergiatou, I. and Miras, K.
A simple method for the serodiagnosis of human hydatid disease based on a protein A/colloidal dye conjugate (218) 123
Elliott, S.R., Macardle, P.J. and Zola, H.
Removal of erythroid cells from umbilical cord blood mononuclear cell preparations using magnetic beads and a monoclonal antibody against glycophorin A (217) 121
Emnéus, J., see Lindgren, A. (211) 33
Emnéus, J., see Önnerfjord, P. (213) 31
Encke, A., see Blaheta, R.A. (211) 159
Engberg Damsgaard, T., see Shah, P.M. (214) 141
Enssle, K.-H., see Jung, T. (217) 41
Eremin, S., see Lindgren, A. (211) 33
Eremin, S., see Önnerfjord, P. (213) 31
Erlendsson, K., see Rafnar, B.O. (211) 171
Esnault, V.L.M., see Audrain, M.A.P. (222) 219
Excler, J.L., see Raux, M. (222) 111
Ezquerra, A., see Bullido, R. (222) 1

F

Fadda, G., see Burioni, R. (217) 195
Fahey, J.L., see Shen, L.-P. (215) 123
Fahey, R.C., see Unson, M.D. (214) 29
Falus, A., see Berki, T. (214) 19
Fan, Q.R., see Walter, J.B. (214) 41
Fass, D.N., see Sun, J. (211) 111
Faulkner, L., Borysiewicz, L.K. and Man, S.
The use of human leucocyte antigen class I transgenic mice to investigate human immune function (221) 1

Fei, D.T., see Rodriguez, C.R. (219) 45
Felgenhauer, K., see Schlaf, G. (213) 191
Feng, X., see Shounan, Y. (217) 61
Fenton, M., Bone, N. and Sinclair, A.J.
The efficient and rapid import of a peptide into primary B and T lymphocytes and a lymphoblastoid cell line (212) 41
Fernández-Caldas, E., see Boluda, L. (223) 17
Ferrant, A., see Winandy, M. (215) 81
Fink, P.S., see Mason, K.M. (211) 147
Finkielsztejn, L., see Raux, M. (222) 111
Fleckenstein, B., see Jung, C. (219) 139
Flomerfelt, F.A., see Kim, M.G. (213) 169
Fochesato, M., see Hilgers, L.A.Th. (218) 105
Fochesato, M., see Hilgers, L.A.Th. (218) 95
Forthal, D.N. and Landucci, G.
In vitro reduction of virus infectivity by antibody-dependent cell-mediated immunity (220) 129
Foster, D.M., see Romaschin, A.D. (212) 169
Foti, M., Granucci, F., Ricciardi-Castagnoli, P., Spreafico, A., Ackermann, M. and Suter, M.
Rabbit monoclonal Fab derived from a phage display library (213) 201
Fox, J.D., see Darke, B.M. (212) 19
Frahm, S.O., Zott, B., Dworeck, C., Steinmann, J., Neppert, J. and Parwaresch, R.
Improved ELISA proliferation assay (EPA) for the detection of in vitro cell proliferation by a new Ki-67-antigen directed monoclonal antibody (Ki-S3) (211) 43
Freedman, R.S., see Nash, M.A. (219) 169
Freeman, M.J., see Al-Majali, A.M. (222) 65
Frevert, C.W., Wong, V.A., Goodman, R.B., Goodwin, R. and Martin, T.R.
Rapid fluorescence-based measurement of neutrophil migration in vitro (213) 41
Frey, A., Di Canzio, J. and Zurakowski, D.
A statistically defined endpoint titer determination method for immunoassays (221) 35
Frobert, Y., see Negroni, L. (220) 25
Frohn, C., Schlenke, P., Ebel, B., Dannenberg, C., Bein, G. and Kirchner, H.
DNA typing for natural killer cell inhibiting HLA-Cw groups NK1 and NK2 by PCR-SSP (218) 155
Fujita, H., see Asano, M. (214) 131
Fukuda, Y., see Nagahira, K. (222) 83
Fukui, H., see Hashimoto, Y. (221) 77

G

Gaasenbeek, C.P.H., see Van Milligen, F.J. (213) 183
Gaines Das, R.E., see Poole, S. (214) 1
Galea-Lauri, J., see Bromelow, K.V. (217) 177
Galisteo-González, F., see Molina-Bolívar, J.A. (211) 87
Gallimore, J.R., see Poole, S. (214) 1
Galpin, J.S., see Sherman, G.G. (222) 209
Garboczi, D.N., see Walter, J.B. (214) 41
Gehring, S., Schlaak, M. and Van der Bosch, J.
A new in vitro model for studying human T cell differentiation: T_{H1}/T_{H2} induction following activation by superantigens (219) 85
George, A.J.T., see Mahiouz, D.L. (212) 149
George, A.J.T., see Verma, R. (216) 165
Georgiou, S., see Kakabakos, S.E. (222) 183
Germain, R.N., see Kim, M.G. (213) 169
Gerson, F., see Audrain, M.A.P. (222) 219
Geusens, P., see VanderBorght, A. (223) 47
Ghenne, L., see Hilgers, L.A.Th. (218) 95
Ghirardello, A., see Bizzaro, N. (219) 99
Giannini, S.L., see Jacobs, N. (223) 123
Gibellini, D., Carla Re, M., Panaya, R., Venturi, E., Milani, D., La Placa, M. and Zauli, G.
Flow cytometric quantification of HIV-1 Tat protein in *tat*-transfected Jurkat T cell lines (221) 107
Gill, A., see Pearson, J.E. (221) 87
Glaser, A., see Thurner, B. (223) 1
Glatz, J.F.C., see Kaptein, W.A. (217) 103
Glencross, D.K., see Sherman, G.G. (222) 209
Goldenberg, D.M., see Qu, Z. (213) 131
Gómez del Moral, M., see Bullido, R. (222) 1
Gong, W., see Wang, J.M. (220) 1
Goodman, R.B., see Frevert, C.W. (213) 41
Goodwin, R., see Frevert, C.W. (213) 41
Gordon, E., see Cohard, M. (214) 121
Gougeon, M.-L., see Lecoeur, H. (217) 11
Goujon, L., Brossette, T., Dereudre-Bosquet, N., Creminon, C., Clayette, P., Dormont, D., Mioskowski, C., Lebeau, L. and Grassi, J.
Monitoring of intracellular levels of 5′-monophosphate-AZT using an enzyme immunoassay (218) 19
Govindan, S.V., see Qu, Z. (213) 131
Grant, T., see De Koning-Ward, T.F. (215) 39
Granucci, F., see Foti, M. (213) 201
Grassi, J., see Goujon, L. (218) 19
Grassi, J., see Negroni, L. (220) 25
Gratchev, A., see Böhm, C. (217) 71
Grewal, H.M.S., see Vetvik, H. (215) 163
Gribnau, T.C.J., see Loomans, E.E.M.G. (221) 119
Gribnau, T.C.J., see Loomans, E.E.M.G. (221) 131
Grob, P., see Baumann, S. (221) 95
Gröger, M., Matsumura, T., Kohrgruber, N., Maurer, D., Wolff, K. and Petzelbauer, P.
A standardized, computer-assisted in vitro assay for the assessment of neutrophil transmigration across endothelial monolayers (222) 101
Grönlund, H., see Schranz, D.B. (213) 87
Grouin, J.M., see Raux, M. (222) 111
Grubb, A., see Leickt, L. (220) 19
Gulle, H., Eibl, M.M. and Wolf, H.M.
Nitrocellulose particles adsorbed to immunoglobulins are a new and effective approach to induce cell activation dependent on receptor aggregation (214) 199
Gunnarsson, H. and Svedhem, Å.
The usefulness of Diffusion-In-Gel-ELISA in clinical practice as illustrated by a *Campylobacter jejuni* outbreak (215) 135

H

Haase, B., see Beckmann, C. (212) 131
Hagg, D.S. and Junghans, R.P.
Measurement and biological correlates of antibody bioactivity during antibody immunotherapies (219) 7
Haimovich, J., Czerwinski, D., Wong, C.P. and Levy, R.
Determination of anti-idiotype antibodies by surface plasmon resonance (214) 113
Haleem-Smith, H., see Arudchandran, R. (222) 197
Hammond, S.A., Issel, C.J. and Montelaro, R.C.
General method for the detection and in vitro expansion of equine cytolytic T lymphocytes (213) 73
Haneberg, B., see Hordnes, K. (220) 151
Haneberg, B., see Vetvik, H. (215) 163
Hanna, S.M., see Darke, B.M. (212) 19
Hansen, H.J., see Qu, Z. (213) 131
Hansen, P., Scoble, J.A., Hanson, B. and Hoogenraad, N.J.
Isolation and purification of immunoglobulins from chicken eggs using thiophilic interaction chromatography (215) 1
Hanski, C., see Böhm, C. (217) 71
Hanski, M.-L., see Böhm, C. (217) 71
Hanson, B., see Hansen, P. (215) 1
Harding, C.V., see Ramachandra, L. (213) 53
Hardman, N., see Pluschke, G. (215) 27
Harenberg, J., see Wang, L. (222) 93
Harmsen, M., see Hilgers, L.A.Th. (218) 95
Haro, L.S., see López-Guajardo, C.C. (215) 179
Harris, D.M., see Romaschin, A.D. (212) 169
Harrison, B.A., MacKenzie, R., Hirama, T., Lee, K.K. and Altman, E.
A kinetics approach to the characterization of an IgM specific for the glycolipid asialo-GM1 (212) 29
Hart, D.N.J., see Mannering, S.I. (219) 69
Hashimoto, Y., Ikeda, I., Ikeda, M., Takahashi, Y., Hosaka, M., Uchida, H., Kono, N., Fukui, H., Makino, T. and Honjo, M.
Construction of a specific and sensitive sandwich enzyme immunoassay for 20 kDa human growth hormone (221) 77
Haskard, D.O., see Mahiouz, D.L. (212) 149
Haugen, I.L., see Vetvik, H. (215) 163
Haugland, R.P., see Bhalgat, M.K. (219) 57
Hawkey, C.J., see Logan, R.P.H. (213) 19
Hay, F.C., see Routier, F.H. (213) 113
He, M., see Chappel, J.A. (221) 25
Helbert, M., see Richardson, M.P. (219) 187
Henderson, C.E., Ownby, D., Klebanoff, M. and Levine, R.J.
Stability of immunoglobulin E (IgE) in stored obstetric sera (213) 99
Heuer, M., see Thurner, B. (223) 1
Heuser, C., see Hombach, A. (218) 53
Heusser, C.H., see Jung, T. (217) 41
Hevey, M., see Nardin, A. (211) 21
Hidalgo-Álvarez, R., see Molina-Bolívar, J.A. (211) 87
Hilgers, L.A.Th., Fochesato, M., Nicolas, I., Lejeune, G. and Boon, B.
Quantitative analysis of a synthetic adjuvant by an immunoassay (218) 105
Hilgers, L.A.Th., Ghenne, L., Nicolas, I., Fochesato, M., Lejeune, G., Harmsen, M. and Boon, B.
Analysis of oral uptake of a synthetic adjuvant by an immunoassay with monoclonal antibodies (218) 95
Hirama, T., see Harrison, B.A. (212) 29
Hoffmann, U., see Wang, L. (222) 93
Hombach, A., Pohl, C., Heuser, C., Sircar, R., Diehl, V. and Abken, H.
Isolation of single chain antibody fragments with specificity for cell surface antigens by phage display utilizing internal image anti-idiotypic antibodies (218) 53
Homburger, H.A., see Sun, J. (211) 111
Honjo, M., see Hashimoto, Y. (221) 77
Hoogenraad, N.J., see Hansen, P. (215) 1
Hopstaken, F., see Van Noort, J.M. (221) 159
Hordnes, K., Trovik, J., Tynning, T. and Haneberg, B.
Self-sampled and air-dried cervicovaginal secretions can be used for analyses of mucosal antibodies (220) 151
Horiuchi, S., see Ikeda, K. (215) 95
Horiuchi, T., see Tominaga, Y. (212) 61
Horohov, D.W., see Swiderski, C.E. (222) 155
Horváth, G., see Balázs, M. (218) 117
Hosaka, M., see Hashimoto, Y. (221) 77
Hoskin, D.W., see Taylor, R. (212) 105
Hounsell, E.F., see Routier, F.H. (213) 113
Houston, S., see Ramage, G. (212) 139
Høyer-Hansen, G., see List, K. (222) 125
Hu-Li, J., see Huang, H. (215) 173
Huang, H., Pannetier, C., Hu-Li, J. and Paul, W.E.
Transient transfection of primary T helper cells by particle-mediated gene transfer (215) 173
Hubert, P., see Jacobs, N. (223) 123
Hudson, J.A., see Sun, J. (211) 111
Hughes, J., see Case, M.C. (223) 93
Hughes, M.A., see Case, M.C. (223) 93
Huhle, G., see Wang, L. (222) 93
Huizinga, T.W.J., see Van der Linden, M.W. (218) 63
Humphreys, D.P., Vetterlein, O.M., Chapman, A.P., King, D.J., Antoniw, P., Suitters, A.J., Reeks, D.G., Parton, T.A.H., King, L.M., Smith, B.J., Lang, V. and Stephens, P.E.
$F(ab')_2$ molecules made from *Escherichia coli* produced Fab′ with hinge sequences conferring increased serum survival in an animal model (217) 1
Hunter, R.L., see Actor, J.K. (211) 65
Husby, S., see Shah, P.M. (214) 141
Huse, K., see Scholz, G.H. (219) 109

I

Ikeda, I., see Hashimoto, Y. (221) 77
Ikeda, K., Nagai, R., Sakamoto, T., Sano, H., Araki, T., Sakata, N., Nakayama, H., Yoshida, M., Ueda, S. and Horiuchi, S.

Immunochemical approaches to AGE-structures: characterization of anti-AGE antibodies (215) 95
Ikeda, M., see Hashimoto, Y. (221) 77
Ikegami, H., see Taniguchi, M. (217) 97
Ilonen, J., see Välimaa, L. (219) 131
Imrich, A., Taylor, M. and Kobzik, L.
Fluorescence-based microplate bioassay for tumor necrosis factor (212) 109
Irth, H., see Lindgren, A. (211) 33
Irvine, K.R., see Surman, D.R. (214) 51
Ishaque, A. and Al-Rubeai, M.
Use of intracellular pH and annexin-V flow cytometric assays to monitor apoptosis and its suppression by *bcl-2* over-expression in hybridoma cell culture (221) 43
Ishiwata, S., see Itoh, K. (223) 107
Issel, C.J., see Hammond, S.A. (213) 73
Itoh, K., Suzuki, K., Ishiwata, S., Tezuka, T., Mizugaki, M. and Suzuki, T.
Application of a recombinant Fab fragment from a phage display library for sensitive detection of a target antigen by an inhibition ELISA system (223) 107

J

Jaakkola, K., Knuuti, J., Söderlund, K., Saraste, A., Jalkanen, S. and Voipio-Pulkki, L.-M.
Labelling lymphocytes with technetium^{99m}-hexamethyl propyleneamine oxime for scintigraphy: an improved labelling procedure (214) 187
Jackson, S.K., see Darke, B.M. (212) 19
Jacobs, N., Giannini, S.L., Al-Saleh, W., Hubert, P., Boniver, J. and Delvenne, P.
Generation of T lymphocytes from the epithelium and stroma of squamous pre-neoplastic lesions of the uterine cervix (223) 123
Jakobsen, K., see Vassiliou, G. (215) 9
Jalkanen, S., see Jaakkola, K. (214) 187
Jefferis, R., see Routier, F.H. (213) 113
Jenh, C.-H., Cox, M.A., Lundell, D., Narula, S.K. and Zavodny, P.J.
A highly sensitive and specific assay using a novel human growth hormone cDNA reporter gene regulated by the human interleukin-4 inducible germline ε transcript promoter (217) 87
Jenkinson, E.J., see Anderson, G. (216) 155
Jensen, L.E. and Whitehead, A.S.
Competitive reverse transcription polymerase chain reaction for quantifying pre-MRNA and mRNA of major acute phase proteins (215) 45
Jensen, P.E., Moore, J.C. and Lukacher, A.E.
A europium fluoroimmunoassay for measuring peptide binding to MHC class I molecules (215) 71
Johnstone, A.P., see Murray, A.M. (218) 133
Jones, T., see Durrani, Z. (220) 93
Jordan, L., see López-Guajardo, C.C. (215) 179
Joss, A., see Pluschke, G. (215) 27
Ju, H.-S.J., see Leigh, S.D. (220) 169
Juji, T., see Tsumoto, K. (219) 119
Jung, C., Kalbus, M., Fleckenstein, B., Melms, A., Jung, G. and Wiesmüller, K.-H.
New ligands for HLA DRB1*0301 by random selection of favourable amino acids ranked by competition studies with undecapeptide amide sublibraries (219) 139
Jung, G., see Jung, C. (219) 139
Jung, T., Bews, J.P.A., Enssle, K.-H., Wagner, K., Neumann, C. and Heusser, C.H.
Detection of and discrimination between total and free human interleukin-4 and free soluble interleukin-4 receptor by ELISA (217) 41
Junghans, R.P., see Hagg, D.S. (219) 7
Jungi, T.W., see Perler, L. (222) 189

K

Kabir, S.
Jacalin: a jackfruit (*Artocarpus heterophyllus*) seed-derived lectin of versatile applications in immunobiological research (212) 193
Kakabakos, S.E., Georgiou, S., Petrou, P.S. and Christofidis, I.
Heterogeneous fluoroimmunoassays using fluorescein as label with measurement of the fluorescence signal directly onto the solid-phase (222) 183
Kalams, S., see Shen, D.-F. (215) 113
Kalbus, M., see Jung, C. (219) 139
Kämpgen, E., see Thurner, B. (223) 1
Kane, J.W., see Pearson, J.E. (221) 87
Kang, A.S., see Chappel, J.A. (221) 25
Kaptein, W.A., Korf, J., Cheng, S., Yang, M., Glatz, J.F.C. and Renneberg, R.
On-line flow displacement immunoassay for fatty acid-binding protein (217) 103
Karagouni, E., see Eliades, P. (218) 123
Kase, T., see Ohtani, K. (222) 135
Kashala, O., see Pluschke, G. (215) 27
Katerkamp, A., see Orban, M. (215) 17
Katinger, H.W.D., see Steindl, F. (217) 143
Katoh, H., see Yamagata, Y. (212) 161
Kaveri, S.V., see Lacroix-Desmazes, S. (216) 117
Kawai, T., see Ohtani, K. (222) 135
Kawashima, H., see Nagahira, K. (222) 83
Kazatchkine, M.D., see Lacroix-Desmazes, S. (216) 117
Kedar, E., see Bishara, A. (215) 187
Keikavoussi, P., see Thurner, B. (223) 1
Kelehan, P., see Moran, E. (219) 151
Kelly, C.D., see Murray, A.M. (218) 133
Kennedy, S.M., see Moran, E. (219) 151
Keshi, H., see Ohtani, K. (222) 135
Keyt, B., see Rodriguez, C.R. (219) 45
Kieke, M.C., see Cho, B.K. (220) 179

Kim, M.G., Chen, C., Flomerfelt, F.A., Germain, R.N. and Schwartz, R.H.
A subtractive PCR-based cDNA library made from fetal thymic stromal cells (213) 169
King, D.J., see Humphreys, D.P. (217) 1
King, L.M., see Humphreys, D.P. (217) 1
Kipriyanov, S., see Mersmann, M. (220) 51
Kirchner, H., see Frohn, C. (218) 155
Kishore, U., see Strong, P. (220) 139
Kita, Y., see Tominaga, Y. (212) 61
Klebanoff, M., see Henderson, C.E. (213) 99
Klei, T.R., see Swiderski, C.E. (222) 155
Klein, B.S., see Chang, W.L. (211) 51
Knight, R.A., see Pantelidis, P. (214) 209
Knuuti, J., see Jaakkola, K. (214) 187
Kobayashi, K., see Asano, M. (214) 131
Kobzik, L., see Imrich, A. (212) 109
Koch, F., see Lutz, M.B. (223) 77
Kohrgruber, N., see Gröger, M. (222) 101
Kolberg, J.A., see Shen, L.-P. (215) 123
Kondo, H., see Tsumoto, K. (219) 119
König, T. and Skerra, A.
Use of an albumin-binding domain for the selective immobilisation of recombinant capture antibody fragments on ELISA plates (218) 73
Kono, N., see Hashimoto, Y. (221) 77
Koopman, W.J., see Rundle, C.H. (218) 31
Koprowski, H., see Verch, T. (220) 69
Koren, E., see Neethling, F.A. (222) 31
Korf, J., see Kaptein, W.A. (217) 103
Koscec, M., see Neethling, F.A. (222) 31
Krakauer, T.
Variability in the sensitivity of nine enzyme-linked immunosorbant assays (ELISAs) in the measurement of human interleukin 6 (219) 161
Kranz, D.M., see Cho, B.K. (220) 179
Kravchuk, Z.I., Chumanevich, A.A., Vlasov, A.P. and Martsev, S.P.
Two high-affinity monoclonal IgG2a antibodies with differing thermodynamic stability demonstrate distinct antigen-induced changes in protein A-binding affinity (217) 131
Krivi, G.G., see López-Guajardo, C.C. (215) 179
Kronenberger, B., see Blaheta, R.A. (211) 159
Krook, M., Mosbach, K. and Ramström, O.
Novel peptides binding to the Fc-portion of immunoglobulins obtained from a combinatorial phage display peptide library (221) 151
Kruse, M., see Thurner, B. (223) 1
Kuffner, T., see Actor, J.K. (211) 65
Kukutsch, N., see Lutz, M.B. (223) 77
Kullberg, B.-J., see Van Crevel, R. (222) 145
Kumagai, I., see Tsumoto, K. (219) 119
Kumánovics, A., see Berki, T. (214) 19
Kumánovics, G., see Berki, T. (214) 19
Kumar, S., see Li, C.G. (218) 85
Kummer, A. and Li-Chan, E.C.Y.
Application of an ELISA-elution assay as a screening tool for dissociation of yolk antibody–antigen complexes (211) 125
Kurihara, T., see Nagahira, K. (222) 83
Kurimoto, M., see Taniguchi, M. (217) 97

L

Lacroix-Desmazes, S., Kaveri, S.V., Mouthon, T., Ayouba, A., Malanchère, E., Coutinho, A. and Kazatchkine, M.D.
Self-reactive antibodies (natural autoantibodies) in healthy individuals (216) 117
Lacy, P., see Mahmudi-Azer, S. (217) 113
Lafky, J.M., see Baron, A.T. (219) 23
Lamar, C., see Al-Majali, A.M. (222) 65
Lammerding, P., see Stachowski, J. (213) 145
Landin-Olsson, M., see Schranz, D.B. (213) 87
Landucci, G., see Forthal, D.N. (220) 129
Lang, V., see Humphreys, D.P. (217) 1
Langhorne, J., see Allsopp, C.E.M. (214) 175
La Placa, M., see Gibellini, D. (221) 107
Larkin, A., see Moran, E. (219) 151
Lebeau, L., see Goujon, L. (218) 19
Lebrón, J.A., Shen, H., Bjorkman, P.J. and Ou, S.
Tolerization of adult mice to immunodominant proteins before monoclonal antibody production (222) 59
Lecoeur, H., Ledru, E. and Gougeon, M.-L.
A cytofluorometric method for the simultaneous detection of both intracellular and surface antigens of apoptotic peripheral lymphocytes (217) 11
Ledru, E., see Lecoeur, H. (217) 11
Lee, K.K., see Harrison, B.A. (212) 29
Lee, T.D.G., see Taylor, R. (212) 105
Leenen, P.J.M., see De Bruijn, M.F.T.R. (217) 27
Leickt, L., Grubb, A. and Ohlson, S.
Affinity screening for weak monoclonal antibodies (220) 19
Leigh, S.D., Ju, H.-S.J., Lundgard, R., Daniloff, G.Y. and Liu, V.
Development of an immunoassay for urinary galactosylhydroxylysine (220) 169
Leistner, S., see Scholz, G.H. (219) 109
Lejeune, G., see Hilgers, L.A.Th. (218) 105
Lejeune, G., see Hilgers, L.A.Th. (218) 95
Lenzi, R., see Nash, M.A. (219) 169
Lernmark, Å., see Schranz, D.B. (213) 87
Leung, S.-o., see Qu, Z. (213) 131
Levi-Schaffer, F., see Walsh, G.M. (217) 153
Levine, R.J., see Henderson, C.E. (213) 99
Levy, R., see Haimovich, J. (214) 113
Lew, A.M., see Martin, R.M. (212) 187
Lewalle, P., see Winandy, M. (215) 81
Lewandowska-Stachowiak, M., see Stachowski, J. (213) 145
Li, C.G., Wilson, P.B., Bernabeu, C., Raab, U., Wang, J.M. and Kumar, S.
Immunodetection and characterisation of soluble CD105-TGFβ complexes (218) 85
Li-Chan, E.C.Y., see Kummer, A. (211) 125
Lindgren, A., Emnéus, J., Marko-Varga, G., Irth, H., Oosterkamp, A. and Eremin, S.

Optimisation of a heterogeneous non-competitive flow immunoassay comparing fluorescein, peroxidase and alkaline phosphatase as labels (211) 33
Linkert, S., see Pluschke, G. (215) 27
List, K., Høyer-Hansen, G., Rønne, E., Danø, K. and Behrendt, N.
Different mechanisms are involved in the antibody mediated inhibition of ligand binding to the urokinase receptor: a study based on biosensor technology (222) 125
Little, M., see Mersmann, M. (220) 51
Liu, Q., see Cohard, M. (214) 121
Liu, V., see Leigh, S.D. (220) 169
Logan, R.P.H., Robins, A., Turner, G.A., Cockayne, A., Borriello, S.P. and Hawkey, C.J.
A novel flow cytometric assay for quantitating adherence of *Helicobacter pylori* to gastric epithelial cells (213) 19
Loomans, E.E.M.G., Gribnau, T.C.J., Bloemers, H.P.J. and Schielen, W.J.G.
Adsorption studies of tritium-labeled peptides on polystyrene surfaces (221) 131
Loomans, E.E.M.G., Gribnau, T.C.J., Bloemers, H.P.J. and Schielen, W.J.G.
The influence of binding capacity and affinity on the improved performance of N-terminally extended hCG peptides, determined by ELISA-based procedures (221) 119
Loor, F., see Tiberghien, F. (223) 63
López-Guajardo, C.C., Armstrong, L.S., Jordan, L., Staten, N.R., Krivi, G.G., Martinez, A.O. and Haro, L.S.
Generation, characterization and utilization of anti-human growth hormone 1–43, (hGH_{1-43}), monoclonal antibodies in an ELISA (215) 179
Loré, K., Sönnerborg, A., Spetz, A.-L., Andersson, U. and Andersson, J.
Immunocytochemical detection of cytokines and chemokines in Langerhans cells and in vitro derived dendritic cells (214) 97
Lövgren-Bengtsson, K., see Andersson, C. (222) 171
Lövgren, T., see Välimaa, L. (219) 131
Luhtala, M., see Välimaa, L. (219) 131
Lukacher, A.E., see Jensen, P.E. (215) 71
Lundell, D., see Jenh, C.-H. (217) 87
Lundgard, R., see Leigh, S.D. (220) 169
Lutz, M.B., Kukutsch, N., Ogilvie, A.L.J., Rößner, S., Koch, F., Romani, N. and Schuler, G.
An advanced culture method for generating large quantities of highly pure dendritic cells from mouse bone marrow (223) 77

M

Maassen, C.B.M.
A rapid and safe plasmid isolation method for efficient engineering of recombinant lactobacilli expressing immunogenic or tolerogenic epitopes for oral administration (223) 131
Macardle, P.J., see Elliott, S.R. (217) 121
Mack, K.D., Wei, R., Elbagarri, A., Abbey, N. and McGrath, M.S.
A novel method for DEAE-dextran mediated transfection of adherent primary cultured human macrophages (211) 79
Macken, C.
Design and analysis of serial limiting dilution assays with small sample sizes (222) 13
MacKenzie, R. and To, R.
The role of valency in the selection of anti-carbohydrate single-chain Fvs from phage display libraries (220) 39
MacKenzie, R., see Harrison, B.A. (212) 29
Mäder, M., see Schlaf, G. (213) 191
Mahiouz, D.L., Aichinger, G., Haskard, D.O. and George, A.J.T.
Expression of recombinant anti-E-selectin single-chain Fv antibody fragments in stably transfected insect cell lines (212) 149
Mahmudi-Azer, S., Lacy, P., Bablitz, B. and Moqbel, R.
Inhibition of nonspecific binding of fluorescent-labelled antibodies to human eosinophils (217) 113
Maihle, N.J., see Baron, A.T. (219) 23
Maino, V.C., see Suni, M.A. (212) 89
Major, G.N., see Case, M.C. (223) 93
Makino, T., see Hashimoto, Y. (221) 77
Malanchère, E., see Lacroix-Desmazes, S. (216) 117
Malka, R., see Bishara, A. (215) 187
Malsch, R., see Wang, L. (222) 93
Man, S., see Faulkner, L. (221) 1
Mann, B., see Böhm, C. (217) 71
Mannering, S.I., McKenzie, J.L. and Hart, D.N.J.
Optimisation of the conditions for generating human DC initiated antigen specific T lymphocyte lines in vitro (219) 69
Manoni, F., see Bizzaro, N. (219) 99
Marfurt, J., see Pluschke, G. (215) 27
Marko-Varga, G., see Lindgren, A. (211) 33
Marko-Varga, G., see Önnerfjord, P. (213) 31
Markus, B.H., see Blaheta, R.A. (211) 159
Marshall, J.C., see Romaschin, A.D. (212) 169
Martin, R.M., Brady, J.L. and Lew, A.M.
The need for IgG2c specific antiserum when isotyping antibodies from C57BL/6 and NOD mice (212) 187
Martin, T.R., see Frevert, C.W. (213) 41
Martinez, A.O., see López-Guajardo, C.C. (215) 179
Martsev, S.P., see Kravchuk, Z.I. (217) 131
Mascher, B., Schlenke, P. and Seyfarth, M.
Expression and kinetics of cytokines determined by intracellular staining using flow cytometry (223) 115
Mason, D., see Ramírez, F. (221) 141
Mason, K.M., Bigley, N.J. and Fink, P.S.
Development of a novel in vitro co-culture system for studying host response to native bacterial antigens (211) 147
Matsumoto, K., see Arai, K. (217) 79
Matsumura, T., see Gröger, M. (222) 101
Matsuura, S., see Yamagata, Y. (212) 161
Matthews, L.J., see Smith, G.P. (215) 151
Maurer, D., see Gröger, M. (222) 101
Mazenko, R.S., see Brewster, J.D. (211) 1
McBride, J., see Ohyama, H. (215) 105
McCullough, K.C., see Natale, V.A.I. (214) 165

McGrath, M.S., see Mack, K.D. (211) 79
McInerney, T.L., see Durrani, Z. (220) 93
McKenzie, J.L., see Mannering, S.I. (219) 69
McLain, L., see Durrani, Z. (220) 93
McNicholl, J.M., see Actor, J.K. (211) 65
Melms, A., see Jung, C. (219) 139
Meloen, R.H., see Williams, S.C. (213) 1
Mendelow, B.V., see Sherman, G.G. (222) 209
Merrill, S.J.
Computational models in immunological methods: an historical review (216) 69
Mersmann, M., Schmidt, A., Tesar, M., Schöneberg, A., Welschof, M., Kipriyanov, S., Terness, P., Little, M., Pfizenmaier, K. and Moosmayer, D.
Monitoring of scFv selected by phage display using detection of scFv–pIII fusion proteins in a microtiter scale assay (220) 51
Milani, D., see Gibellini, D. (221) 107
Mioskowski, C., see Goujon, L. (218) 19
Miras, K., see Eliades, P. (218) 123
Mire-Sluis, A.R. and Thorpe, R.
Laboratory protocols for the quantitation of cytokines by bioassay using cytokine responsive cell lines (211) 199
Mire-Sluis, A.R., Das, R.G. and Padilla, A.
WHO cytokine standardization: facilitating the development of cytokines in research, diagnosis and as therapeutic agents (216) 103
Misaki, H., see Arai, K. (217) 79
Mizugaki, M., see Itoh, K. (223) 107
Molina-Bolívar, J.A., Galisteo-González, F. and Hidalgo-Álvarez, R.
Particle enhanced immunoassays stabilized by hydration forces: a comparative study between IgG and $F(ab')_2$ immunoreactivity (211) 87
Montaño, R.F. and Morrison, S.L.
A colorimetric–enzymatic microassay for the quantitation of antibody-dependent complement activation (222) 73
Montelaro, R.C., see Hammond, S.A. (213) 73
Moore, J.C., see Jensen, P.E. (215) 71
Moosmayer, D., see Mersmann, M. (220) 51
Moqbel, R., see Mahmudi-Azer, S. (217) 113
Moqbel, R., see Walsh, G.M. (217) 153
Moran, E., Larkin, A., Cleary, I., Barnes, C., Kennedy, S.M., Kelehan, P. and Clynes, M.
Monoclonal antibodies raised to paraffin wax embedded archival tissue; feasibility study of their potential to detect novel antigenic markers (219) 151
Moreno, S.N.J., see Yan, W. (220) 123
Morgan, C., see Strong, P. (220) 139
Morgan, C.L., Newman, D.J., Burrin, J.M. and Price, C.P.
The matrix effects on kinetic rate constants of antibody–antigen interactions reflect solvent viscosity (217) 51
Mori, T., see Taniguchi, M. (217) 97
Moro, I., see Asano, M. (214) 131
Morrison, S.L., see Montaño, R.F. (222) 73
Mosbach, K., see Krook, M. (221) 151
Mouthon, T., see Lacroix-Desmazes, S. (216) 117
Moutsopoulos, H.M., see Petrovas, C.J. (220) 59
Moyer, M.P., see Böhm, C. (217) 71
Muller, J.-Y., see Audrain, M.A.P. (222) 219
Murby, M., see Andersson, C. (222) 171
Murray, A.M., Kelly, C.D., Nussey, S.S. and Johnstone, A.P.
Production of glutathione-coated microtitre plates for capturing recombinant glutathione *S*-transferase fusion proteins as antigens in immunoassays (218) 133
Myers, M.A.
Direct measurement of cell numbers in microtitre plate cultures using the fluorescent dye SYBR green I (212) 99

N

Naar, J., see Pauillac, S. (220) 105
Nag, B., see Arimilli, S. (212) 49
Nagahira, K., Fukuda, Y., Oyama, Y., Kurihara, T., Nasu, T., Kawashima, H., Noguchi, C., Oikawa, S. and Nakanishi, T.
Humanization of a mouse neutralizing monoclonal antibody against tumor necrosis factor-α (TNF-α) (222) 83
Nagai, R., see Ikeda, K. (215) 95
Nagaoka, K., see Taniguchi, M. (217) 97
Nakamura, K., see Yamagata, Y. (212) 161
Nakanishi, T., see Nagahira, K. (222) 83
Nakayama, H., see Ikeda, K. (215) 95
Nakhoul, A.-M., see Coombe, D.R. (215) 145
Nardin, A., Sutherland, W.M., Hevey, M., Schmaljohn, A. and Taylor, R.P.
Quantitative studies of heteropolymer-mediated binding of inactivated Marburg virus to the complement receptor on primate erythrocytes (211) 21
Narula, S.K., see Jenh, C.-H. (217) 87
Nash, M.A., Lenzi, R., Platsoucas, C.D. and Freedman, R.S.
RT-PCR quantitation of cytokine responses in vivo from specimens containing small numbers of cells during bioimmunotherapy (219) 169
Nasu, T., see Nagahira, K. (222) 83
Natale, V.A.I. and McCullough, K.C.
Macrophage culture: influence of species-specific incubation temperature (214) 165
Neethling, F.A., Koscec, M., Oriol, R., Cooper, D.K.C. and Koren, E.
A reliable, rapid and inexpensive two-color fluorescence assay to monitor serum cytotoxicity in xenotransplantation (222) 31
Negroni, L., Bernard, H., Clement, G., Chatel, J.M., Brune, P., Frobert, Y., Wal, J.M. and Grassi, J.
Two-site enzyme immunometric assays for determination of native and denatured β-lactoglobulin (220) 25
Németh, P., see Berki, T. (211) 139
Németh, P., see Berki, T. (214) 19
Neppert, J., see Frahm, S.O. (211) 43
Netea, M.G., see Van Crevel, R. (222) 145
Neumann, C., see Jung, T. (217) 41
Newman, D.J., see Morgan, C.L. (217) 51

Newton, G.L., see Unson, M.D. (214) 29
Ng, P. and Baker, M.D.
High efficiency site-specific modification of the chromosomal immunoglobulin locus by gene targeting (214) 81
Nicholls, S.J., see Allsopp, C.E.M. (214) 175
Nicolas, I., see Hilgers, L.A.Th. (218) 105
Nicolas, I., see Hilgers, L.A.Th. (218) 95
Nielsen, H.V., see Shah, P.M. (214) 141
Niläng, A., see Schranz, D.B. (213) 87
Nociari, M.M., Shalev, A., Benias, P. and Russo, C.
A novel one-step, highly sensitive fluorometric assay to evaluate cell-mediated cytotoxicity (213) 157
Noguchi, C., see Nagahira, K. (222) 83
Nukada, Y., see Taniguchi, M. (217) 97
Nussey, S.S., see Murray, A.M. (218) 133

O

O'Brien, M.E., see Bromelow, K.V. (217) 177
O'Connell, P.J., see Shounan, Y. (217) 61
Ogilvie, A.L.J., see Lutz, M.B. (223) 77
O'Hare, T. and Rittenberg, M.B.
A simple method for determining K_As of both low and high affinity IgG antibodies (218) 161
Ohlin, M., see Strandh, M. (214) 73
Ohlson, S., see Leickt, L. (220) 19
Ohlson, S., see Strandh, M. (214) 73
Ohta, T., see Taniguchi, M. (217) 97
Ohtani, K., Suzuki, Y., Eda, S., Kawai, T., Kase, T., Keshi, H., Sakai, Y., Yamamoto, S., Sakamoto, T. and Wakamiya, N.
High-level and effective production of human mannan-binding lectin (MBL) in Chinese hamster ovary (CHO) cells (222) 135
Ohyama, H., McBride, J. and Wong, D.T.W.
Optimized conditions for gene transfection into the human eosinophilic cell line EoL-1 by electroporation (215) 105
Oikawa, S., see Nagahira, K. (222) 83
O'Kane, D.J., see Baron, A.T. (219) 23
Okura, T., see Taniguchi, M. (217) 97
Olsen, I. and Wiker, H.G.
Diffusion blotting for rapid production of multiple identical imprints from sodium dodecyl sulfate polyacrylamide gel electrophoresis on a solid support (220) 77
Önnerfjord, P., Eremin, S., Emnéus, J. and Marko-Varga, G.
Fluorescence polarisation for immunoreagent characterisation (213) 31
Oosterkamp, A., see Lindgren, A. (211) 33
Oppedisano, F., see De Koning-Ward, T.F. (215) 39
Orban, M., Katerkamp, A., Renneberg, R., Spener, F. and Cammann, K.
Kinetic analysis of immunointeractions with covalently immobilized fatty acid-binding protein using a grating coupler sensor (215) 17
Oriol, R., see Neethling, F.A. (222) 31
Ou, S., see Lebrón, J.A. (222) 59
Ownby, D., see Henderson, C.E. (213) 99
Oyama, Y., see Nagahira, K. (222) 83

P

Padilla, A., see Mire-Sluis, A.R. (216) 103
Pagé, M., see Bicamumpaka, C. (212) 1
Paice, J., see Romaschin, A.D. (212) 169
Palmer, J.M., see Case, M.C. (223) 93
Panaya, R., see Gibellini, D. (221) 107
Pannetier, C., see Huang, H. (215) 173
Pantelidis, P., Santilli, G. and Knight, R.A.
Sequential identification of apoptotic and necrotic cells on individual cytospin preparations (214) 209
Parish, C.R., see Vassiliou, G. (215) 9
Parton, T.A.H., see Humphreys, D.P. (217) 1
Parwaresch, R., see Frahm, S.O. (211) 43
Patel, J.M., see Sherman, G.G. (222) 209
Patrick, S., see Ramage, G. (212) 139
Pauillac, S., Naar, J., Branaa, P. and Chinain, M.
An improved method for the production of antibodies to lipophilic carboxylic hapten using small amount of hapten-carrier conjugate (220) 105
Paul, W.E., see Huang, H. (215) 173
Peakman, M., see Stevens, E.J. (215) 59
Pearson, J.E., Kane, J.W., Petraki-Kallioti, I., Gill, A. and Vadgama, P.
Surface plasmon resonance: a study of the effect of biotinylation on the selection of antibodies for use in immunoassays (221) 87
Peoples, J., see Baron, A.T. (219) 23
Pepys, M.B., see Poole, S. (214) 1
Perkus, M., see Cohard, M. (214) 121
Perler, L., Pfister, H., Schweizer, M., Peterhans, E. and Jungi, T.W.
A bioassay for interferon type I based on inhibition of Sendai virus growth (222) 189
Perlstein, E., see Weidanz, J.A. (221) 59
Peroni, S.E., see Coombe, D.R. (215) 145
Pertlik, D., see Baumann, S. (221) 95
Peterhans, E., see Perler, L. (222) 189
Petraki-Kallioti, I., see Pearson, J.E. (221) 87
Petrenko, V.A., see Smith, G.P. (215) 151
Petrou, P.S., see Kakabakos, S.E. (222) 183
Petrovas, C.J., Vlachoyiannopoulos, P.G., Tzioufas, A.G., Alexopoulos, C., Tsikaris, V., Sakarellos-Daitsiotis, M., Sakarellos, C. and Moutsopoulos, H.M.
A major Sm epitope anchored to sequential oligopeptide carriers is a suitable antigenic substrate to detect anti-Sm antibodies (220) 59

Petzelbauer, P., see Gröger, M. (222) 101
Pfister, H., see Perler, L. (222) 189
Pfizenmaier, K., see Mersmann, M. (220) 51
Piazza, A., see Bizzaro, N. (219) 99
Picker, L.J., see Suni, M.A. (212) 89
Pierer, K., see Steindl, F. (217) 143
Pierson, L., Allauzen, S., Blumenthal, M. and Rosenberg, A.
An automated method for determination of antibody affinity distribution functions with nanogram quantities (211) 97
Plaisant, P., see Burioni, R. (217) 195
Platsoucas, C.D., see Nash, M.A. (219) 169
Ploemacher, R.E., see De Bruijn, M.F.T.R. (217) 27
Pluschke, G., Joss, A., Marfurt, J., Daubenberger, C., Kashala, O., Zwickl, M., Stief, A., Sansig, G., Schläpfer, B., Linkert, S., Van der Putten, H., Hardman, N. and Schröder, M.
Generation of chimeric monoclonal antibodies from mice that carry human immunoglobulin Cγ1 heavy or Cκ light chain gene segments (215) 27
Pockley, A.G., see Saxton, J.M. (214) 11
Podratz, K.C., see Baron, A.T. (219) 23
Pohl, C., see Hombach, A. (218) 53
Pollack, J.S., see Bhalgat, M.K. (219) 57
Poole, S., Walker, D., Gaines Das, R.E., Gallimore, J.R. and Pepys, M.B.
The first international standard for serum amyloid A protein (SAA). Evaluation in an international collaborative study (214) 1
Pradella, M., see Bizzaro, N. (219) 99
Price, C.P., see Morgan, C.L. (217) 51
Prince, A.M., see Cohard, M. (214) 121
Puijk, W.C., see Williams, S.C. (213) 1
Puklavec, M., see Ramírez, F. (221) 141
Purtscher, M., see Steindl, F. (217) 143

Q

Qu, Z., Sharkey, R.M., Hansen, H.J., Shih, L.B., Govindan, S.V., Shen, J., Goldenberg, D.M. and Leung, S.-o.
Carbohydrates engineered at antibody constant domains can be used for site-specific conjugation of drugs and chelates (213) 131

R

Raab, U., see Li, C.G. (218) 85
Rafnar, B.O., Traustadóttir, K.H., Sigfússon, Á., Arason, G.J., Valdimarsson, H. and Erlendsson, K.
An enzyme based assay for the measurement of complement mediated binding of immune complexes to red blood cells (211) 171
Ramachandra, L., Sramkoski, R.M., Canaday, D.H., Boom, W.H. and Harding, C.V.
Flow analysis of MHC molecules and other membrane proteins in isolated phagosomes (213) 53
Ramage, G., Patrick, S. and Houston, S.
Combined fluorescent in situ hybridisation and immunolabelling of *Bacteroides fragilis* (212) 139
Ramírez, F., Stumbles, P., Puklavec, M. and Mason, D.
Rat interleukin-4 assays (221) 141
Ramström, O., see Krook, M. (221) 151
Raus, J., see VanderBorght, A. (223) 47
Raux, M., Finkielsztejn, L., Salmon-Céron, D., Bouchez, H., Excler, J.L., Dulioust, E., Grouin, J.M., Sicard, D. and Blondeau, C.
Development and standardization of methods to evaluate the antibody response to an HIV-1 candidate vaccine in secretions and sera of seronegative vaccine recipients (222) 111
Reeks, D.G., see Humphreys, D.P. (217) 1
Reid, K.B.M., see Strong, P. (220) 139
Renneberg, R., see Kaptein, W.A. (217) 103
Renneberg, R., see Orban, M. (215) 17
Restifo, N.P., see Surman, D.R. (214) 51
Reumaux, D., see Audrain, M.A.P. (222) 219
Reyes, L.I., see Bono, M.R. (223) 27
Reynolds, E.C., see Black, C.L. (214) 63
Ribeiro, M.B., see Romaschin, A.D. (212) 169
Ricciardi-Castagnoli, P., see Foti, M. (213) 201
Richardson, M.P., Ayliffe, M.J., Helbert, M. and Davies, E.G.
A simple flow cytometry assay using dihydrorhodamine for the measurement of the neutrophil respiratory burst in whole blood: comparison with the quantitative nitrobluetetrazolium test (219) 187
Riecken, E.-O., see Böhm, C. (217) 71
Rittenberg, M.B., see O'Hare, T. (218) 161
Rivera, J., see Arudchandran, R. (222) 197
Rizzotti, P., see Bizzaro, N. (219) 99
Robins, A., see Logan, R.P.H. (213) 19
Robins-Browne, R.M., see De Koning-Ward, T.F. (215) 39
Robinson, J.P., see Al-Majali, A.M. (222) 65
Rodenburg, R.J.T., Van den Hoogen, F.H.J., Van de Putte, L.B.A. and Van Venrooij, W.J.
Peripheral blood monocytes of rheumatoid arthritis patients do not express elevated TNF α, IL-1β, and IL-8 mRNA levels. A comparison of monocyte isolation procedures (221) 169
Röder, C., see Thurner, B. (223) 1
Rodriguez, C.R., Fei, D.T., Keyt, B. and Baly, D.L.
A sensitive fluorometric enzyme-linked immunosorbent assay that measures vascular endothelial growth factor$_{165}$ in human plasma (219) 45
Romani, N., see Lutz, M.B. (223) 77
Romaschin, A.D., Harris, D.M., Ribeiro, M.B., Paice, J., Foster, D.M., Walker, P.M. and Marshall, J.C.
A rapid assay of endotoxin in whole blood using autologous neutrophil dependent chemiluminescence (212) 169
Rønne, E., see List, K. (222) 125

Rosemblatt, M., see Bono, M.R. (223) 27
Rosenberg, A., see Pierson, L. (211) 97
Rosenberg, S.A., see Surman, D.R. (214) 51
Rößner, S., see Lutz, M.B. (223) 77
Routier, F.H., Hounsell, E.F., Rudd, P.M., Takahashi, N., Bond, A., Hay, F.C., Alavi, A., Axford, J.S. and Jefferis, R.
Quantitation of the oligosaccharides of human serum IgG from patients with rheumatoid arthritis: a critical evaluation of different methods (213) 113
Rudd, P.M., see Routier, F.H. (213) 113
Rundle, C.H., Schroeder Jr., H.W. and Koopman, W.J.
In situ hybridization analysis of immunoglobulin heavy chain variable gene expression with family specific oligonucleotide probes (218) 31
Runowski, D., see Stachowski, J. (213) 145
Russell, C.A. and Vindelov, L.L.
Optimization and comparison of the MTT assay and the ^{3}H-TdR assay for the detection of IL-2 in helper T cell precursor assays (217) 165
Russell, C.A., Wulf, H.C., Sørensen, P.B. and Vindeløv, L.L.
Evaluation of X-radiation and UV-B radiation for elimination of ^{3}H-thymidine incorporation into responder cells in the IL-2 producing helper T lymphocyte precursor assay (220) 161
Russo, C., see Nociari, M.M. (213) 157

S

Saeed, A.M., see Al-Majali, A.M. (222) 65
Sagné, L., see Cliquet, F. (212) 79
Saito, M., see Asano, M. (214) 131
Sakai, Y., see Ohtani, K. (222) 135
Sakamoto, T., see Ikeda, K. (215) 95
Sakamoto, T., see Ohtani, K. (222) 135
Sakarellos, C., see Petrovas, C.J. (220) 59
Sakarellos-Daitsiotis, M., see Petrovas, C.J. (220) 59
Sakata, N., see Ikeda, K. (215) 95
Salazar-Gonzalez, J.F., see Shen, L.-P. (215) 123
Salje, C., see Schlaf, G. (213) 191
Salmon-Céron, D., see Raux, M. (222) 111
Sandberg, L., see Andersson, C. (222) 171
Sanderson, C.J., see Coombe, D.R. (215) 145
Sano, H., see Ikeda, K. (215) 95
Sansig, G., see Pluschke, G. (215) 27
Santilli, G., see Pantelidis, P. (214) 209
Sarantopoulos, S., see Den, W. (222) 45
Saraste, A., see Jaakkola, K. (214) 187
Sastre, J., see Boluda, L. (223) 17
Sato, K., see Tominaga, Y. (212) 61
Satomura, S., see Yamagata, Y. (212) 161
Saxton, J.M. and Pockley, A.G.
Effect of ex vivo storage on human peripheral blood neutrophil expression of CD11b and the stabilizing effects of Cyto-Chex™ (214) 11
Scherbaum, W.A., see Scholz, G.H. (219) 109
Schielen, W.J.G., see Loomans, E.E.M.G. (221) 119
Schielen, W.J.G., see Loomans, E.E.M.G. (221) 131
Schiøtz, P.O., see Shah, P.M. (214) 141
Schlaak, M., see Gehring, S. (219) 85
Schlaf, G., Salje, C., Wetter, A., Stuertz, K., Felgenhauer, K. and Mäder, M.
Determination of synapsin I and synaptophysin in body fluids by two-site enzyme-linked immunosorbent assays (213) 191
Schläpfer, B., see Pluschke, G. (215) 27
Schlenke, P., see Frohn, C. (218) 155
Schlenke, P., see Mascher, B. (223) 115
Schmaljohn, A., see Nardin, A. (211) 21
Schmidt, A., see Mersmann, M. (220) 51
Scholz, G.H., Vieweg, S., Leistner, S., Seissler, J., Scherbaum, W.A. and Huse, K.
A simplified procedure for the isolation of immunoglobulins from human serum using a novel type of thiophilic gel at low salt concentration (219) 109
Scholz, M., see Blaheta, R.A. (211) 159
Schöneberg, A., see Mersmann, M. (220) 51
Schranz, D.B., Bekris, L., Landin-Olsson, M., Törn, C., Niläng, A., Toll, Å., Grönlund, H., Toivola, B., Lernmark, Å. and (DISS), D.I.S.S.
A simple and rapid microSepharose assay for GAD65 and ICA512 autoantibodies in diabetes (213) 87
Schröder, M., see Pluschke, G. (215) 27
Schroeder Jr., H.W., see Rundle, C.H. (218) 31
Schuldes, H., see Blaheta, R.A. (211) 159
Schuler, G., see Lutz, M.B. (223) 77
Schuler, G., see Thurner, B. (223) 1
Schwartz, R.H., see Kim, M.G. (213) 169
Schweizer, M., see Perler, L. (222) 189
Scoble, J.A., see Hansen, P. (215) 1
Seissler, J., see Scholz, G.H. (219) 109
Seyfarth, M., see Mascher, B. (223) 115
Shah, P.M., Husby, S., Engberg Damsgaard, T., Nielsen, H.V. and Schiøtz, P.O.
Purification of human colonic and gastric mast cells (214) 141
Shalev, A., see Nociari, M.M. (213) 157
Sharkey, R.M., see Qu, Z. (213) 131
Sharon, J., see Den, W. (222) 45
Shen, D.-F., Doukhan, L., Kalams, S. and Delwart, E.
High-resolution analysis of T-cell receptor β-chain repertoires using DNA heteroduplex tracking: generally stable, clonal CD8 + expansions in all healthy young adults (215) 113
Shen, H., see Lebrón, J.A. (222) 59
Shen, J., see Qu, Z. (213) 131
Shen, L.-P., Sheridan, P., Cao, W.W., Dailey, P.J., Salazar-Gonzalez, J.F., Breen, E.C., Fahey, J.L., Urdea, M.S. and Kolberg, J.A.
Quantification of cytokine mRNA in peripheral blood mononuclear cells using branched DNA (bDNA) technology (215) 123
Sheridan, P., see Shen, L.-P. (215) 123

Sherman, G.G., Galpin, J.S., Patel, J.M., Mendelow, B.V. and Glencross, D.K.
CD4$^+$ T cell enumeration in HIV infection with limited resources (222) 209
Shih, L.B., see Qu, Z. (213) 131
Shinoki, K., see Tsumoto, K. (219) 119
Shounan, Y., Feng, X. and O'Connell, P.J.
Apoptosis detection by annexin V binding: a novel method for the quantitation of cell-mediated cytotoxicity (217) 61
Shulman, E.P., see Surman, D.R. (214) 51
Sicard, D., see Raux, M. (222) 111
Sigfússon, Á., see Arason, G.J. (223) 37
Sigfússon, Á., see Rafnar, B.O. (211) 171
Sinclair, A.J., see Fenton, M. (212) 41
Singh, M., see Strong, P. (220) 139
Sinnis, P.
An immunoradiometric assay for the quantification of *Plasmodium* sporozoite invasion of HepG2 cells (221) 17
Sircar, R., see Hombach, A. (218) 53
Sjölander, A., see Andersson, C. (222) 171
Sjöroos, M., see Välimaa, L. (219) 131
Skerra, A., see König, T. (218) 73
Smith, B.J., see Humphreys, D.P. (217) 1
Smith, G.P., Petrenko, V.A. and Matthews, L.J.
Cross-linked filamentous phage as an affinity matrix (215) 151
Söderlund, K., see Jaakkola, K. (214) 187
Sompuram, S.R., see Den, W. (222) 45
Song, J.S., see Arudchandran, R. (222) 197
Song, X., see Wang, L. (222) 93
Sönnerborg, A., see Loré, K. (214) 97
Sørensen, P.B., see Russell, C.A. (220) 161
Souberbielle, B.E., see Bromelow, K.V. (217) 177
Specks, U., see Sun, J. (211) 111
Spener, F., see Orban, M. (215) 17
Spetz, A.-L., see Loré, K. (214) 97
Spreafico, A., see Foti, M. (213) 201
Sramkoski, R.M., see Ramachandra, L. (213) 53
Stachowski, J., Barth, C., Lewandowska-Stachowiak, M., Lammerding, P., Runowski, D. and Baldamus, C.A.
Flow cytometric analysis of urine lymphocytes isolated from patients with renal transplants—purification of urine lymphocytes (213) 145
Ståhl, S., see Andersson, C. (222) 171
Staten, N.R., see López-Guajardo, C.C. (215) 179
Steindl, F., Armbruster, C., Pierer, K., Purtscher, M. and Katinger, H.W.D.
A simple and robust method for the complete dissociation of HIV-1 p24 and other antigens from immune complexes in serum and plasma samples (217) 143
Steinmann, J., see Frahm, S.O. (211) 43
Stephens, P.E., see Humphreys, D.P. (217) 1
Stergiatou, I., see Eliades, P. (218) 123
Stevens, E.J. and Peakman, M.
Enhanced T cell proliferation and increased responder frequency following delivery of antigen to the antigen-presenting cell; B cell dependency and use in detection of autoreactive T cells (215) 59
Stevenson, S.M., see Coombe, D.R. (215) 145
Stief, A., see Pluschke, G. (215) 27
Stinissen, P., see VanderBorght, A. (223) 47
Stoeken, D.-J., see Van der Linden, M.W. (218) 63
Strandh, M., Ohlin, M., Borrebaeck, C.A.K. and Ohlson, S.
New approach to steroid separation based on a low affinity IgM antibody (214) 73
Strong, P., Kishore, U., Morgan, C., Bernal, A.L., Singh, M. and Reid, K.B.M.
A novel method of purifying lung surfactant proteins A and D from the lung lavage of alveolar proteinosis patients and from pooled amniotic fluid (220) 139
Stuart, F., see Baumann, S. (221) 95
Stuertz, K., see Schlaf, G. (213) 191
Stumbles, P., see Ramírez, F. (221) 141
Sturk, A., see Van der Linden, M.W. (218) 63
Su, S., see Wang, J.M. (220) 1
Suitters, A.J., see Humphreys, D.P. (217) 1
Suman, V.J., see Baron, A.T. (219) 23
Sun, J., Fass, D.N., Hudson, J.A., Viss, M.A., Wieslander, J., Homburger, H.A. and Specks, U.
Capture-ELISA based on recombinant PR3 is sensitive for PR3–ANCA testing and allows detection of PR3 and PR3–ANCA/PR3 immunecomplexes (211) 111
Suni, M.A., Picker, L.J. and Maino, V.C.
Detection of antigen-specific T cell cytokine expression in whole blood by flow cytometry (212) 89
Suresh, M.R., see Cao, Y. (220) 85
Suri, R.M. and Austyn, J.M.
Bacterial lipopolysaccharide contamination of commercial collagen preparations may mediate dendritic cell maturation in culture (214) 149
Surman, D.R., Irvine, K.R., Shulman, E.P., Allweis, T.M., Rosenberg, S.A. and Restifo, N.P.
Generation of polyclonal rabbit antisera to mouse melanoma associated antigens using gene gun immunization (214) 51
Suter, M., see Baumann, S. (221) 95
Suter, M., see Foti, M. (213) 201
Sutherland, W.M., see Nardin, A. (211) 21
Suzuki, K., see Itoh, K. (223) 107
Suzuki, T., see Itoh, K. (223) 107
Suzuki, Y., see Ohtani, K. (222) 135
Svedhem, Å., see Gunnarsson, H. (215) 135
Swan, S., see Bhalgat, M.K. (219) 57
Swiderski, C.E., Klei, T.R. and Horohov, D.W.
Quantitative measurement of equine cytokine mRNA expression by polymerase chain reaction using target-specific standard curves (222) 155

T

Takahashi, N., see Routier, F.H. (213) 113
Takahashi, Y., see Hashimoto, Y. (221) 77
Takashi, T., see Tominaga, Y. (212) 61
Tanaka, T., see Yamagata, Y. (212) 161

Taniguchi, M., Nagaoka, K., Ushio, S., Nukada, Y., Okura, T., Mori, T., Yamauchi, H., Ohta, T., Ikegami, H. and Kurimoto, M.
Establishment of the cells useful for murine interleukin-18 bioassay by introducing murine interleukin-18 receptor cDNA into human myelomonocytic KG-1 cells (217) 97
Taylor, M., see Imrich, A. (212) 109
Taylor, R., Lee, T.D.G. and Hoskin, D.W.
Assessment of eosinophil accumulation in the peritoneal cavity of *Balb/c* mice infected with *Mesocestoides corti* or *Nippostrongylus brasiliensis* larvae or sensitized with ovalbumin (212) 105
Taylor, R.P., see Nardin, A. (211) 21
Terness, P., see Mersmann, M. (220) 51
Tesar, M., see Beckmann, C. (212) 131
Tesar, M., see Mersmann, M. (220) 51
Tezuka, T., see Itoh, K. (223) 107
Theunissen, R., see Damoiseaux, J.G.M.C. (217) 185
Thorpe, R.
Developments in immunological standardization (216) 93
Thorpe, R., see Mire-Sluis, A.R. (211) 199
Thorpe, R., see Wadhwa, M. (219) 1
Thurner, B., Röder, C., Dieckmann, D., Heuer, M., Kruse, M., Glaser, A., Keikavoussi, P., Kämpgen, E., Bender, A. and Schuler, G.
Generation of large numbers of fully mature and stable dendritic cells from leukapheresis products for clinical application (223) 1
Tiberghien, F., Didier, A., Bohbot, A. and Loor, F.
The MultiScreen® filtration system to measure chemoattractant-induced release of leukocyte granule enzymes by differentiated HL-60 cells or normal human monocytes (223) 63
Timmis, K.N., see Beckmann, C. (212) 131
To, R., see MacKenzie, R. (220) 39
Toivanen, P., see Välimaa, L. (219) 131
Toivola, B., see Schranz, D.B. (213) 87
Toll, Å., see Schranz, D.B. (213) 87
Tominaga, Y., Kita, Y., Uchiyama, T., Sato, K., Sato, K., Takashi, T. and Horiuchi, T.
Expression of a soluble form of LFA-1 and demonstration of its binding activity with ICAM-1 (212) 61
Tonutti, E., see Bizzaro, N. (219) 99
Törn, C., see Schranz, D.B. (213) 87
Tozzoli, R., see Bizzaro, N. (219) 99
Traustadóttir, K.H., see Rafnar, B.O. (211) 171
Trovik, J., see Hordnes, K. (220) 151
Tsikaris, V., see Petrovas, C.J. (220) 59
Tsumoto, K., Shinoki, K., Kondo, H., Uchikawa, M., Juji, T. and Kumagai, I.
Highly efficient recovery of functional single-chain Fv fragments from inclusion bodies overexpressed in *Escherichia coli* by controlled introduction of oxidizing reagent—application to a human single-chain Fv fragment (219) 119
Turner, G.A., see Logan, R.P.H. (213) 19
Turvy, D.N. and Blum, J.S.
Detection of biotinylated cell surface receptors and MHC molecules in a capture ELISA: a rapid assay to measure endocytosis (212) 9
Tynning, T., see Hordnes, K. (220) 151
Tzioufas, A.G., see Petrovas, C.J. (220) 59

U

Uchida, H., see Hashimoto, Y. (221) 77
Uchikawa, M., see Tsumoto, K. (219) 119
Uchiyama, T., see Tominaga, Y. (212) 61
Ueda, S., see Ikeda, K. (215) 95
Újhelyi, E., see Berki, T. (214) 19
Unson, M.D., Newton, G.L., Davis, C. and Fahey, R.C.
An immunoassay for the detection and quantitative determination of mycothiol (214) 29
Urdea, M.S., see Shen, L.-P. (215) 123
Ushio, S., see Taniguchi, M. (217) 97

V

Vadgama, P., see Pearson, J.E. (221) 87
Vaerman, J.-P., see Asano, M. (214) 131
Valdimarsson, H., see Arason, G.J. (223) 37
Valdimarsson, H., see Rafnar, B.O. (211) 171
Välimaa, L., Sjöroos, M., Luhtala, M., Toivanen, P., Lövgren, T. and Ilonen, J.
Detection of HLA-B27 alleles by group-specific amplification and time-resolved fluorometry (219) 131
Van Breda Vriesman, P.J.C., see Damoiseaux, J.G.M.C. (217) 185
Van Crevel, R., Van der Ven-Jongekrijg, J., Netea, M.G., De Lange, W., Kullberg, B.-J. and Van der Meer, J.W.M.
Disease-specific ex vivo stimulation of whole blood for cytokine production: applications in the study of tuberculosis (222) 145
Van den Hoogen, F.H.J., see Rodenburg, R.J.T. (221) 169
Van de Putte, L.B.A., see Rodenburg, R.J.T. (221) 169
Van der Aa, A., see VanderBorght, A. (223) 47
VanderBorght, A., Van der Aa, A., Geusens, P., Caroline Vandevyver, , Raus, J. and Stinissen, P.
Identification of overrepresented T cell receptor genes in blood and tissue biopsies by PCR-ELISA (223) 47
Van der Bosch, J., see Gehring, S. (219) 85
Van der Heyde, H.C., see Chang, W.L. (211) 51
Van der Linden, M.W., Huizinga, T.W.J., Stoeken, D.-J., Sturk, A. and Westendorp, R.G.J.
Determination of tumour necrosis factor-α and interleukin-10 production in a whole blood stimulation system: assessment of laboratory error and individual variation (218) 63
Van der Meer, J.W.M., see Van Crevel, R. (222) 145
Van der Putten, H., see Pluschke, G. (215) 27

Van der Ven-Jongekrijg, J., see Van Crevel, R. (222) 145
Van Ewijk, W., see De Bruijn, M.F.T.R. (217) 27
Van Milligen, F.J., Cornelissen, J.B.W.J., Gaasenbeek, C.P.H. and Bokhout, B.A.
A novel ex vivo rat infection model to study protective immunity against *Fasciola hepatica* at the gut level (213) 183
Van Noort, J.M., Van Veelen, P. and Hopstaken, F.
Purification of the stress protein αB-crystallin and its differentially phosphorylated forms (221) 159
Van Regenmortel, M.H.V.
From absolute to exquisite specificity. Reflections on the fuzzy nature of species, specificity and antigenic sites. (216) 37
Van Veelen, P., see Van Noort, J.M. (221) 159
Van Venrooij, W.J., see Rodenburg, R.J.T. (221) 169
Van Vianen, W., see De Bruijn, M.F.T.R. (217) 27
Vassiliou, G., Jakobsen, K. and Parish, C.R.
Detection of low-affinity adhesion ligands by linking recombinant cell adhesion molecules in uniform orientation to a fluorescently labelled dextran molecule by means of hexahistidine tagging: the case of multimeric CD40 (215) 9
Venturi, E., see Gibellini, D. (221) 107
Verch, T., Yusibov, V. and Koprowski, H.
Expression and assembly of a full-length monoclonal antibody in plants using a plant virus vector (220) 69
Verma, R., Boleti, E. and George, A.J.T.
Antibody engineering: Comparison of bacterial, yeast, insect and mammalian expression system (216) 165
Vetterlein, O.M., see Humphreys, D.P. (217) 1
Vetvik, H., Grewal, H.M.S., Haugen, I.L., Åhrén, C. and Haneberg, B.
Mucosal antibodies can be measured in air-dried samples of saliva and feces (215) 163
Vieweg, S., see Scholz, G.H. (219) 109
Víkingsdóttir, T., see Arason, G.J. (223) 37
Villalta, D., see Bizzaro, N. (219) 99
Vindeløv, L.L., see Russell, C.A. (220) 161
Vindelov, L.L., see Russell, C.A. (217) 165
Viss, M.A., see Sun, J. (211) 111
Visvanathan, K., see Chapman, F. (219) 181
Vitetta, E.S., see Clinchy, B. (218) 141
Vlachoyiannopoulos, P.G., see Petrovas, C.J. (220) 59
Vlasov, A.P., see Kravchuk, Z.I. (217) 131
Voipio-Pulkki, L.-M., see Jaakkola, K. (214) 187

W

Wada, M., see Asano, M. (214) 131
Wadhwa, M. and Thorpe, R.
Cytokine immunoassays: recommendations for standardisation, calibration and validation (219) 1
Wagner, K., see Jung, T. (217) 41
Wakamiya, N., see Ohtani, K. (222) 135
Wal, J.M., see Negroni, L. (220) 25
Walker, B.D., see Walter, J.B. (214) 41
Walker, D., see Poole, S. (214) 1
Walker, P.M., see Romaschin, A.D. (212) 169
Walsh, A.C., see Colinas, R.J. (212) 69
Walsh, G.M., Dewson, G., Wardlaw, A.J., Levi-Schaffer, F. and Moqbel, R.
A comparative study of different methods for the assessment of apoptosis and necrosis in human eosinophils (217) 153
Walter, J.B., Garboczi, D.N., Fan, Q.R., Zhou, X., Walker, B.D. and Eisen, H.N.
A mutant human β_2-microglobulin can be used to generate diverse multimeric class I peptide complexes as specific probes for T cell receptors (214) 41
Wang, J.M., Deng, X., Gong, W. and Su, S.
Chemokines and their role in tumor growth and metastasis (220) 1
Wang, J.M., see Li, C.G. (218) 85
Wang, L., Huhle, G., Malsch, R., Hoffmann, U., Song, X. and Harenberg, J.
Determination of heparin-induced IgG antibody by fluorescence-linked immunofiltration assay (FLIFA) (222) 93
Wank, S.A., see Arudchandran, R. (222) 197
Wardlaw, A.J., see Walsh, G.M. (217) 153
Weber, S., see Blaheta, R.A. (211) 159
Wei, R., see Mack, K.D. (211) 79
Weidanz, J.A., Card, K.F., Edwards, A., Perlstein, E. and Wong, H.C.
Display of functional αβ single-chain T-cell receptor molecules on the surface of bacteriophage (221) 59
Welschof, M., see Mersmann, M. (220) 51
Westendorp, R.G.J., see Van der Linden, M.W. (218) 63
Wetter, A., see Schlaf, G. (213) 191
White, C.W., see Das, K.C. (211) 9
Whitehead, A.S., see Jensen, L.E. (215) 45
Wieslander, J., see Sun, J. (211) 111
Wiesmüller, K.-H., see Jung, C. (219) 139
Wiik, A., see Audrain, M.A.P. (222) 219
Wiker, H.G., see Olsen, I. (220) 77
Wilkinson, P.C.
Assays of leukocyte locomotion and chemotaxis (216) 139
Williams, S.C., Badley, R.A., Davis, P.J., Puijk, W.C. and Meloen, R.H.
Identification of epitopes within beta lactoglobulin recognised by polyclonal antibodies using phage display and PEPSCAN (213) 1
Wilson, P.B., see Li, C.G. (218) 85
Winandy, M., Lewalle, P., Deneys, V., Ferrant, A. and De Bruyère, M.
Improved IL-2 detection for determination of helper T lymphocyte precursor frequency in limiting dilution assay (215) 81
Wittrup, K.D., see Cho, B.K. (220) 179
Woitaschek, D., see Blaheta, R.A. (211) 159
Wolf, H.M., see Gulle, H. (214) 199
Wolff, K., see Gröger, M. (222) 101
Wong, C.P., see Haimovich, J. (214) 113
Wong, D.T.W., see Ohyama, H. (215) 105

Wong, H.C., see Weidanz, J.A. (221) 59
Wong, V.A., see Frevert, C.W. (213) 41
Wulf, H.C., see Russell, C.A. (220) 161

Y

Yamagata, Y., Katoh, H., Nakamura, K., Tanaka, T., Satomura, S. and Matsuura, S.
Determination of α-fetoprotein concentration based on liquid-phase binding assay using anion exchange chromatography and sulfated peptide introduced antibody (212) 161
Yamamoto, S., see Ohtani, K. (222) 135
Yamauchi, H., see Taniguchi, M. (217) 97
Yan, W. and Moreno, S.N.J.
A method to assess invasion and intracellular replication of *Trypanosoma cruzi* based on differential uracil incorporation (220) 123
Yang, M., see Kaptein, W.A. (217) 103
Yeaman, S.J., see Case, M.C. (223) 93
Yoshida, M., see Ikeda, K. (215) 95
Yoshinari, K., see Arai, K. (217) 79
Yu, H.
Comparative studies of magnetic particle-based solid phase fluorogenic and electrochemiluminescent immunoassay (218) 1
Yusibov, V., see Verch, T. (220) 69

Z

Zabriskie, J.B., see Chapman, F. (219) 181
Zauli, G., see Gibellini, D. (221) 107
Zavodny, P.J., see Jenh, C.-H. (217) 87
Zhou, X., see Walter, J.B. (214) 41
Zola, H., see Elliott, S.R. (217) 121
Zott, B., see Frahm, S.O. (211) 43
Zurakowski, D., see Frey, A. (221) 35
Zwickl, M., see Pluschke, G. (215) 27

Key word Index
Volumes 211–223
1998

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Key word index to volumes 211–223 (1998)

A

A549 adenocarcinoma cell line
Biodistribution; Monoclonal antibodies human; ELISA; SCID mouse; Tumor (Arai, K. (217) 79)

2-AB and 2-AP labelled oligosaccharides
Glycosylation; Immunoglobulin; HPLC; HPAEC; Biogel P4; Lectin binding assay; PNGase F; Glycoamidase A (Routier, F.H. (213) 113)

α B-crystallin
Stress proteins; Purification; Phosphorylation (Van Noort, J.M. (221) 159)

Absolute CD4 count
CD4 T lymphocyte; Human immunodeficiency virus; Flow cytometry; Monoclonal antibody (Sherman, G.G. (222) 209)

A9.12 cell line
IL-2 detection; HTLp; GVHD; CTLL-2 cell line (Winandy, M. (215) 81)

4-Acetyl benzoic acid
AOT; Mixed anhydride method; Reversed micelles; Lipid hapten; Conjugation; ELISA (Pauillac, S. (220) 105)

Acetylcholinesterase
β-lactoglobulin; Thermal treatment; Enzyme immunometric assay; Monoclonal antibody (Negroni, L. (220) 25)

Acidification rates
T cell stimulation; Microphysiometer; MHC-peptide; TCR interaction (Arimilli, S. (212) 49)

Acridinium
EGFR; Epidermal growth factor receptor; ErbB1; Soluble ErbB1; Acridinium-linked immunosorbent assay (Baron, A.T. (219) 23)

Acridinium-linked immunosorbent assay
EGFR; Epidermal growth factor receptor; ErbB1; Soluble ErbB1; Acridinium (Baron, A.T. (219) 23)

Activation
CD11b; Neutrophils; Human; Flow cytometry; Cyto-Chex™ (Saxton, J.M. (214) 11)

Acute phase proteins
RT-PCR; Quantitation; Serum amyloid A protein; Serum amyloid P component; C-reactive protein; Apolipoprotein A (Jensen, L.E. (215) 45)

Adherence
Helicobacter spp.; Gastric epithelial cell; Flow cytometry (Logan, R.P.H. (213) 19)

Adhesion
Multimeric; CD40; Dextran; Hexahistidine; Lymphoma (Vassiliou, G. (215) 9)

Adhesion molecules
Single chain Fv; Bacterial expression; Insect expression; *Drosophila melanogaster*; Refolding; E-selectin; Antibody engineering (Mahiouz, D.L. (212) 149)

Adjuvant
Pharmacokinetics; Monoclonal antibody; Blocking ELISA; Polysaccharide; Vaccine (Hilgers, L.A.Th. (218) 95)

Blocking-ELISA; Ficoll; Polysaccharide; Vaccine (Hilgers, L.A.Th. (218) 105)

Aequorin
Quantitative RT-PCR; mRNA; Cytokine; Bioluminescence; Radioimaging (Actor, J.K. (211) 65)

Affinity
IgG2a antibodies; Protein A; Differential scanning calorimetry; Stability (Kravchuk, Z.I. (217) 131)

Affinity binding
Phage display; Recombinant antibody; *gpVIII* (Chappel, J.A. (221) 25)

Affinity chromatography
Peptide epitopes; Phage display; Monospecific antibody (Smith, G.P. (215) 151)

Immunoassay; Immobilised glutathione; Glutathione *S*-transferase fusion protein; Antigen capture; Glutamic acid decarboxylase (Murray, A.M. (218) 133)

Immunoglobulin; Antibody; Thiophilic adsorption; Autoantibodies (Scholz, G.H. (219) 109)

Affinity constant
Phosphocholine; Colchicine; Protein A (O'Hare, T. (218) 161)

Affinity distribution function
IgE (Pierson, L. (211) 97)

Affinity of albumin binding protein
Recombinant protein; Albumin binding protein; Borna disease virus; BIACORE; ELISA; Immobilization of protein (Baumann, S. (221) 95)

Affinity purification
g3p; Peptide-tag; Bacteriophage M13; Phage display; Single chain antibody (Beckmann, C. (212) 131)

AFP
LBA; Sulfated tyrosine octamer; Sulfated peptide (Yamagata, Y. (212) 161)

African swine fever virus
Porcine monocytic cells; Temperature (Natale, V.A.I. (214) 165)

AGEs, anti-AGE antibody
N^{ε}-(carboxymethyl)lysine (CML); Glycoxidation; Enzyme linked immunosorbent assay (ELISA) (Ikeda, K. (215) 95)

Air-drying
Saliva; Feces; IgA; IgG (Vetvik, H. (215) 163)

AlamarBlue
Cell-mediated cytotoxicity; Natural killer activity; NK; CTL; Fluorescence (Nociari, M.M. (213) 157)

Albumin binding protein
Recombinant protein; Affinity of albumin binding protein; Borna disease virus; BIACORE; ELISA; Immobilization of protein (Baumann, S. (221) 95)

Alkaline phosphatase
Heterogeneous non-competitive flow immunoassay; Peroxidase; Fluorescein; Digoxin; Digoxigenin; Fluorescence (Lindgren, A. (211) 33)

Rabbit immunoglobulins; Phage display; Fab fragments; Recombinant antibody (Foti, M. (213) 201)

Allergen
Immunoglobulin; Pregnancy (Henderson, C.E. (213) 99)

Allergens
Olea europaea; Ole e 1; IgE; Standardization; Pollen; Skin test (Boluda, L. (223) 17)

Alloreactivity
BMT; GvHD; HTLp; UV-B irradiation; X-irradiation (Russell, C.A. (220) 161)

Amniotic fluid
Surfactant proteins; Purification; Collectins; Carbohydrate recognition domains; Lung lavage (Strong, P. (220) 139)

ANA
Anti-dsDNA antibody; Anti-ENA antibody; Autoimmune diseases (Bizzaro, N. (219) 99)

ANCA
Capture ELISA; Human; Mast cell; Proteinase 3; Wegener's granulomatosis (Sun, J. (211) 111)

Annexin V
Eosinophil; Apoptosis; Necrosis; Kimura stain (Walsh, G.M. (217) 153)

Apoptosis; Flow cytometry; Culture monitoring; pHi; *bcl-2*; Hybridoma (Ishaque, A. (221) 43)

Annexin V binding
Quantitation; Apoptosis; Cytotoxicity; JAM test (Shounan, Y. (217) 61)

Antennapedia
Peptide mediated import; Transfection; Lymphocyte; Electroporation (Fenton, M. (212) 41)

Antibodies
Human; Immunoconjugates; Oligosaccharides; Immunotherapy (Qu, Z. (213) 131)

Antigen binding; *Escherichia coli*; $F(ab')_2$; Hinge; Serum stability (Humphreys, D.P. (217) 1)

Cytokine immunoassays; Biological fluids (Wadhwa, M. (219) 1)

MHC; T-cell receptors; Immunochemistry; Phage display (Weidanz, J.A. (221) 59)

Antibody
DIG-ELISA; EIA; ELISA; *Campylobacter*; Serology; Diffusion-in-gel (Gunnarsson, H. (215) 135)

Immunoglobulin; Affinity chromatography; Thiophilic adsorption; Autoantibodies (Scholz, G.H. (219) 109)

HIV-1; gp41; Intranasal vaccine; Vaccine; Plant virus chimera; Cowpea mosaic virus; IgA; T_H1 response (Durrani, Z. (220) 93)

Fluorescence linked immunofiltration assay; Relative fluorescence intensity; Heparin-induced thrombocytopenia (Wang, L. (222) 93)

Antibody–antigen interactions
Elution; ELISA; Yolk antibodies; Immunoaffinity chromatography (Kummer, A. (211) 125)

Antibody characterisation
Fluorescence polarisation; Homogenous immunoassay; Triazines; Atrazine (Önnerfjord, P. (213) 31)

Antibody-dependent cell-mediated immunity
Antibody-dependent cellular cytotoxicity; Virus inhibition; Measles (Forthal, D.N. (220) 129)

Antibody-dependent cellular cytotoxicity
Antibody-dependent cell-mediated immunity; Virus inhibition; Measles (Forthal, D.N. (220) 129)

Antibody engineering
Single chain Fv; Bacterial expression; Insect expression; *Drosophila melanogaster*; Refolding; E-selectin; Adhesion molecules (Mahiouz, D.L. (212) 149)

Expression systems; *Escherichia coli*; Yeast; Insect cells; Mammalian cells; Single-chain F (Verma, R. (216) 165)

Antibody library
Phage display; Vectors; *p*-Azophenylarsonate (Den, W. (222) 45)

Antibody structure
Immunological specificity; Nature of epitopes; Cross-reactions; Antigenicity (Van Regenmortel, M.H.V. (216) 37)

Anti-cancer drugs
Erwinia taxi; Fluorescence polarization immunoassay; Serum; Crude extract; Paclitaxel; *Taxus* (Bicamumpaka, C. (212) 1)

Anti-casein antibodies
Multiphosphorylated peptide; ELISA; Casein (Black, C.L. (214) 63)

Anti-dsDNA antibody
ANA; Anti-ENA antibody; Autoimmune diseases (Bizzaro, N. (219) 99)

Anti-ENA antibody
ANA; Anti-dsDNA antibody; Autoimmune diseases (Bizzaro, N. (219) 99)

Antigen
Humanized anti-Tac antibody; Bioactivity (Hagg, D.S. (219) 7)

Antigen–antibody complex
Complement receptor 1 (CD35); Systemic lupus erythematosus (Rafnar, B.O. (211) 171)

Immunoenzyme techniques; Complement (Arason, G.J. (223) 37)

Antigen–antibody interaction
Grating coupler sensor; Heart fatty acid-binding protein; Biosensor; Kinetic analysis (Orban, M. (215) 17)

Antigen binding
Antibodies; *Escherichia coli*; $F(ab')_2$; Hinge; Serum stability (Humphreys, D.P. (217) 1)

Antigen capture
Immunoassay; Affinity chromatography; Immobilised glutathione; Glutathione *S*-transferase fusion protein; Glutamic acid decarboxylase (Murray, A.M. (218) 133)

Antigenicity
Immunological specificity; Nature of epitopes; Cross-reactions; Antibody structure (Van Regenmortel, M.H.V. (216) 37)

Antigen presentation
Clinical studies; T Lymphocytes; Diabetes (Stevens, E.J. (215) 59)

Europium; Major histocompatibility complex; Peptide binding (Jensen, P.E. (215) 71)

Yeast display; scFv; T cell activation; Biological screening (Cho, B.K. (220) 179)

Antigen preservation
Immunoenzyme; Immunohistochemistry; Immunocytochemistry; Immunofluorescence; Flourochromes (Brandtzaeg, P. (216) 49)

Antigen-specific activation
Flow cytometry; Cytokine production; Cytomegalovirus; Whole blood activation assay (Suni, M.A. (212) 89)

Anti-glycophorin A monoclonal antibody (10F7)
Cord blood mononuclear cells; Erythroid contamination; Cell separation; Magnetic beads (Elliott, S.R. (217) 121)

Anti-idiotypic antibodies
Recombinant scFv; CD30; Phage display technique (Hombach, A. (218) 53)

Anti-viral activity
Mannan-binding lectin (MBL); CHO expression system; Complement activation (Ohtani, K. (222) 135)

AOT
4-Acetyl benzoic acid; Mixed anhydride method; Reversed micelles; Lipid hapten; Conjugation; ELISA (Pauillac, S. (220) 105)

APC
Biotinylation; MHC; TfR; Endocytosis (Turvy, D.N. (212) 9)

Apolipoprotein A
RT-PCR; Quantitation; Acute phase proteins; Serum amyloid A protein; Serum amyloid P component; C-reactive protein (Jensen, L.E. (215) 45)

Apoptosis
Necrosis; TUNEL; Trypan blue; Bronchoalveolar lavage; HL-60 (Pantelidis, P. (214) 209)

Flow cytometry; Phenotyping; Intracellular staining; Cell permeabilization (Lecoeur, H. (217) 11)

Quantitation; Cytotoxicity; Annexin V binding; JAM test (Shounan, Y. (217) 61)

JAM-test; Fas ligand; Tumor; T cell (Böhm, C. (217) 71)

Eosinophil; Necrosis; Annexin V; Kimura stain (Walsh, G.M. (217) 153)

Flow cytometry; Culture monitoring; pHi; *bcl-2*; Hybridoma; Annexin V (Ishaque, A. (221) 43)

Asialo-GM1
Glycosphingolipid; Monoclonal antibody; Protein–carbohydrate interactions; Surface plasmon resonance; Liposomes (Harrison, B.A. (212) 29)

Assays
Recombinant DNA technology; Cytokines; Standardization (Mire-Sluis, A.R. (216) 103)

Association / dissociation rate constants (k_{ass}, k_{diss})
Equilibrium/affinity constant (K_A); β_2-microglobulin; IAsys™; Matrix effects; Viscosity (Morgan, C.L. (217) 51)

Ast cells
Gastrointestinal tract; c-kit receptor; CD117; Positive affinity-magnetic selection (Shah, P.M. (214) 141)

Atrazine
Antibody characterisation; Fluorescence polarisation; Homogenous immunoassay; Triazines (Önnerfjord, P. (213) 31)

Autoantibodies
Immunoglobulin; Antibody; Affinity chromatography; Thiophilic adsorption (Scholz, G.H. (219) 109)

Sm autoantigen; Epitopes; ELISA; Sequential oligopeptide carriers (Petrovas, C.J. (220) 59)

Autoimmune diseases
ANA; Anti-dsDNA antibody; Anti-ENA antibody (Bizzaro, N. (219) 99)

Autoimmunity
Radio-antigen binding assay; MicroSepharose; Islet cell autoantibodies; ROC curve; Type 1 diabetes (Schranz, D.B. (213) 87)

TCR expression; TCR V gene usage; PCR-ELISA; Multiple sclerosis; Rheumatoid arthritis (VanderBorght, A. (223) 47)

Autoreactivity
Naural autoantibodies; Repertoires; Immunoglobulins (Lacroix-Desmazes, S. (216) 117)

Avidin–biotin
Surface plasmon resonance; Immunometric assay; Luteinizing hormone (Pearson, J.E. (221) 87)

B

Bacteria
Filtration; Immunoelectrochemistry; *E. coli* O157:H7; Detection (Brewster, J.D. (211) 1)

Superantigen; Staphylococcal enterotoxin B; Interferon-γ; Splenocytes; Cell culture (Mason, K.M. (211) 147)

Solid phase immunoassay; Microplate; Magnetic beads; Detection; Rapid method (Yu, H. (218) 1)

Bacterial expression
Single chain Fv; Insect expression; *Drosophila melanogaster*; Refolding; E-selectin; Adhesion molecules; Antibody engineering (Mahiouz, D.L. (212) 149)

Bacterial identification
rRNA; Oligonucleotide probe; Immunolabelling (Ramage, G. (212) 139)

Bacteriophage M13
g3p; Peptide-tag; Phage display; Single chain antibody; Affinity purification (Beckmann, C. (212) 131)

B cells
Tumour immunotherapy; Monoclonal and polyclonal antibodies (Haimovich, J. (214) 113)

In situ hybridization; Oligonucleotide probes; Heavy chain variable gene family (Rundle, C.H. (218) 31)

B cell antigens
Follicular dendritic cells; Lymphocytes; Monoclonal antibodies; Pig; SWC7 (Bullido, R. (222) 1)

bcl-2
Apoptosis; Flow cytometry; Culture monitoring; pHi; Hybridoma; Annexin V (Ishaque, A. (221) 43)

bcr–abl
Dendritic cells; Primary response; T lymphocyte lines; Media; Tumour associated antigen (Mannering, S.I. (219) 69)

Beads
Latex; Phycobiliproteins; Epidermal growth factor receptor; CD3; CD4; Microspheres (Bhalgat, M.K. (219) 57)

BIACORE
Recombinant protein; Albumin binding protein; Affinity of albumin binding protein; Borna disease virus; ELISA; Immobilization of protein (Baumann, S. (221) 95)

Binding capacity
Peptide; Monoclonal antibody; ELISA; Solid-phase affinity; Liquid-phase affinity (Loomans, E.E.M.G. (221) 119)

Binding motif
Synthetic peptide library; HLA DRB1*0301; Ligands by random selection; Translational invariance (Jung, C. (219) 139)

Bioactivity
Antigen; Humanized anti-Tac antibody (Hagg, D.S. (219) 7)

Bioassay
Cytokine; Murine IL-18; Human cells; Recombinant DNA (Taniguchi, M. (217) 97)

IL-4; Rat (Ramírez, F. (221) 141)

Biochemical marker
Galactosylhydroxylysine; Diagnostic; ELISA; Bone resorption (Leigh, S.D. (220) 169)

Biodistribution
Monoclonal antibodies human; ELISA; SCID mouse; Tumor; A549 adenocarcinoma cell line (Arai, K. (217) 79)

Biogel P4
Glycosylation; Immunoglobulin; HPLC; HPAEC; 2-AB and 2-AP labelled oligosaccharides; Lectin binding assay; PNGase F; Glycoamidase A (Routier, F.H. (213) 113)

Biological assay
Cytokine; Cell line (Mire-Sluis, A.R. (211) 199)

Biological fluids
Cytokine immunoassays; Antibodies (Wadhwa, M. (219) 1)

Biological potency
Standardization; International units; Immunoassays (Thorpe, R. (216) 93)

Biological screening
Yeast display; scFv; T cell activation; Antigen presentation (Cho, B.K. (220) 179)

Bioluminescence
Quantitative RT-PCR; mRNA; Cytokine; Aequorin; Radioimaging (Actor, J.K. (211) 65)

Biosensor
Grating coupler sensor; Heart fatty acid-binding protein; Antigen–antibody interaction; Kinetic analysis (Orban, M. (215) 17)

Biotin
Micro-electrofusion; bsMab (Cao, Y. (220) 85)

Biotinylation
MHC; TfR; Endocytosis; APC (Turvy, D.N. (212) 9)

β-lactoglobulin
Thermal treatment; Enzyme immunometric assay; Monoclonal antibody; Acetylcholinesterase (Negroni, L. (220) 25)

Blocking
FITC; BODIPY FL; IL-6; Immunofluorescence; Fluorochromes (Mahmudi-Azer, S. (217) 113)

Blocking ELISA
Pharmacokinetics; Monoclonal antibody; Adjuvant; Polysaccharide; Vaccine (Hilgers, L.A.Th. (218) 95)

Blocking-ELISA
Ficoll; Polysaccharide; Vaccine; Adjuvant (Hilgers, L.A.Th. (218) 105)

β_2-microglobulin
Association/dissociation rate constants (k_{ass}, k_{diss}); Equilibrium/affinity constant (K_A); IAsys™; Matrix effects; Viscosity (Morgan, C.L. (217) 51)

β_2-microglobulin
Tolerization; HFE; HLA-H; CD94; NKG2A (Lebrón, J.A. (222) 59)

β_2 microglobulin
HLA class I; Transgenic mice; Cytotoxic T cells (Faulkner, L. (221) 1)

BMT
GvHD; HTLp; Alloreactivity; UV-B irradiation; X-irradiation (Russell, C.A. (220) 161)

BODIPY FL
FITC; IL-6; Immunofluorescence; Blocking; Fluorochromes (Mahmudi-Azer, S. (217) 113)

Body fluids
Purification; Sandwich-ELISA; Synapsin I; Synaptophysin (Schlaf, G. (213) 191)

Bone marrow
Cellular composition; *Listeria monocytogenes*; CD31; Ly-6C (De Bruijn, M.F.T.R. (217) 27)

Dendritic cells; GM-CSF; Culture method; Mouse (Lutz, M.B. (223) 77)

Bone resorption
Galactosylhydroxylysine; Diagnostic; ELISA; Biochemical marker (Leigh, S.D. (220) 169)

Borna disease virus
Recombinant protein; Albumin binding protein; Affinity of albumin binding protein; BIACORE; ELISA; Immobilization of protein (Baumann, S. (221) 95)

Bovine beta lactoglobulin
Epitope mapping; Phage display; PEPSCAN; Species/animals (Williams, S.C. (213) 1)

Branched DNA (bDNA)
Cytokine mRNA quantification; Peripheral blood mononuclear cells (Shen, L.-P. (215) 123)

Breast cancer
CD105-TGFβ complex; ELISA; Plasma (Li, C.G. (218) 85)

Bronchoalveolar lavage
Apoptosis; Necrosis; TUNEL; Trypan blue; HL-60 (Pantelidis, P. (214) 209)

bsMab
Micro-electrofusion; Biotin (Cao, Y. (220) 85)

C

C5a
Leukocyte; Neutrophil; Migration; Chemotaxis; Interleukin-8; Fluorescence; Calcein AM (Frevert, C.W. (213) 41)

Calcein AM
Leukocyte; Neutrophil; Migration; Chemotaxis; Interleukin-8; C5a; Fluorescence (Frevert, C.W. (213) 41)

Calmodulin
Cell separation; Calmodulin-binding peptide (Colinas, R.J. (212) 69)

Calmodulin-binding peptide
Cell separation; Calmodulin (Colinas, R.J. (212) 69)

Campylobacter
DIG-ELISA; EIA; ELISA; Serology; Antibody; Diffusion-in-gel (Gunnarsson, H. (215) 135)

Canarypox virus
HCV–CTL response; CTL precursor frequency (Cohard, M. (214) 121)

Cancer
Tumor infiltrating lymphocyte; SIL; Epithelium; Culture; Cervix (Jacobs, N. (223) 123)

Capture ELISA
ANCA; Human; Mast cell; Proteinase 3; Wegener's granulomatosis (Sun, J. (211) 111)

Carbohydrate recognition domains
Surfactant proteins; Purification; Collectins; Lung lavage; Amniotic fluid (Strong, P. (220) 139)

Casein
Multiphosphorylated peptide; ELISA; Anti-casein antibodies (Black, C.L. (214) 63)

cDNA library
Fetal thymic organ culture; Polymerase chain reaction; Thymic stromal cells; Subtractive hybridization (Kim, M.G. (213) 169)

CD117
Ast cells; Gastrointestinal tract; c-kit receptor; Positive affinity-magnetic selection (Shah, P.M. (214) 141)

CD40
Multimeric; Adhesion; Dextran; Hexahistidine; Lymphoma (Vassiliou, G. (215) 9)

CD31
Bone marrow; Cellular composition; *Listeria monocytogenes*; Ly-6C (De Bruijn, M.F.T.R. (217) 27)

CD30
Recombinant scFv; Anti-idiotypic antibodies; Phage display technique (Hombach, A. (218) 53)

CD45
Rat–mouse chimera; Flow cytometry (Balázs, M. (218) 117)

CD3
SCID/PBL; Immunotoxin; Lymphoproliferative disease (Clinchy, B. (218) 141)

Beads; Latex; Phycobiliproteins; Epidermal growth factor receptor; CD4; Microspheres (Bhalgat, M.K. (219) 57)

CD4
Beads; Latex; Phycobiliproteins; Epidermal growth factor receptor; CD3; Microspheres (Bhalgat, M.K. (219) 57)

CD94
Tolerization; HFE; HLA-H; β_2-microglobulin; NKG2A (Lebrón, J.A. (222) 59)

CD11b
Neutrophils; Human; Flow cytometry; Activation; Cyto-Chex™ (Saxton, J.M. (214) 11)

CD105-TGFβ complex
ELISA; Breast cancer; Plasma (Li, C.G. (218) 85)

CD4 T lymphocyte
Absolute CD4 count; Human immunodeficiency virus; Flow cytometry; Monoclonal antibody (Sherman, G.G. (222) 209)

CD4$^+$ T lymphocytes
Jacalin; Lectin; Immunoglobulin A; IgA nephropathy; O-linked glycoproteins (Kabir, S. (212) 193)

Cell adhesion
Flow cytometric assay; Mixed cell adhesion analysis; Lymphocyte subpopulation adhesion analysis (Bono, M.R. (223) 27)

Cell culture
Superantigen; Staphylococcal enterotoxin B; Interferon-γ; Bacteria; Splenocytes (Mason, K.M. (211) 147)

Cell growth
Luciferase; Cell viability; Cytokine assay; Stable transfectants (Coombe, D.R. (215) 145)

Cell line
Cytokine; Biological assay (Mire-Sluis, A.R. (211) 199)

Cell-mediated cytotoxicity
Natural killer activity; NK; CTL; AlamarBlue; Fluorescence (Nociari, M.M. (213) 157)

Cell number quantification
PicoGreen; Hoechst 33342; Propidium iodide; Papain; Primary cell cultures; Fluorescence assay (Blaheta, R.A. (211) 159)

Cell permeabilization
Apoptosis; Flow cytometry; Phenotyping; Intracellular staining (Lecoeur, H. (217) 11)

Cell proliferation
ELISA; Ki-67; Ki-S3 (Frahm, S.O. (211) 43)

Cell separation
Calmodulin; Calmodulin-binding peptide (Colinas, R.J. (212) 69)

Cord blood mononuclear cells; Erythroid contamination; Anti-glycophorin A monoclonal antibody (10F7); Magnetic beads (Elliott, S.R. (217) 121)

Cellular composition
Bone marrow; *Listeria monocytogenes*; CD31; Ly-6C (De Bruijn, M.F.T.R. (217) 27)

Cell viability
Luciferase; Cell growth; Cytokine assay; Stable transfectants (Coombe, D.R. (215) 145)

Cervix
Tumor infiltrating lymphocyte; SIL; Epithelium; Culture; Cancer (Jacobs, N. (223) 123)

Chemiluminescence
Endotoxin bioassay; Neutrophil activation (Romaschin, A.D. (212) 169)

Chemoattractant receptors
Monocytes; HL-60 cells; Granule enzyme release; MultiScreen® assay (Tiberghien, F. (223) 63)

Chemokines
Dendritic cells; Langerhans cells; Cytokines; LPS stimulation; Immunocytochemistry (Loré, K. (214) 97)

Leukocyte; Growth and metastasis of tumors (Wang, J.M. (220) 1)

Chemokinesis
Locomotion; Chemotaxis; Filter assay; Visual assay; Polarization assay; Collagen; Fibrin gels; Orientation assay (Wilkinson, P.C. (216) 139)

Chemotaxis
Leukocyte; Neutrophil; Migration; Interleukin-8; C5a; Fluorescence; Calcein AM (Frevert, C.W. (213) 41)

Locomotion; Filter assay; Chemokinesis; Visual assay; Polarization assay; Collagen; Fibrin gels; Orientation assay (Wilkinson, P.C. (216) 139)

Chimeric antibodies
Immunoglobulin gene replacements (Pluschke, G. (215) 27)

Complement; Hemolysis; Hemoglobin; 2-7 diaminofluorene (Montaño, R.F. (222) 73)

Chinese hamster ovary cell
Polymeric IgR; Dimeric IgA; Transfectant (Asano, M. (214) 131)

CHO expression system
Mannan-binding lectin (MBL); Anti-viral activity; Complement activation (Ohtani, K. (222) 135)

c-kit receptor
Ast cells; Gastrointestinal tract; CD117; Positive affinity-magnetic selection (Shah, P.M. (214) 141)

Clinical studies
T Lymphocytes; Antigen presentation; Diabetes (Stevens, E.J. (215) 59)

Colchicine
Phosphocholine; Affinity constant; Protein A (O'Hare, T. (218) 161)

Colitis
Lymphocyte; Labelling; Technetium (Jaakkola, K. (214) 187)

Collaborative study
SAA; International standard (Poole, S. (214) 1)

Collagen
Dendritic cell; Maturation; Lipopolysaccharide (Suri, R.M. (214) 149)

Locomotion; Chemotaxis; Filter assay; Chemokinesis; Visual assay; Polarization assay; Fibrin gels; Orientation assay (Wilkinson, P.C. (216) 139)

Collectins
Surfactant proteins; Purification; Carbohydrate recognition domains; Lung lavage; Amniotic fluid (Strong, P. (220) 139)

Colloidal dye
Hydatid disease; *Echinococcus*; Protein A; Immunodot assay (Eliades, P. (218) 123)

Colloidal stability
Particle-enhanced immunoassay; IgG and $F(ab')_2$ antibodies; Hydration forces (Molina-Bolívar, J.A. (211) 87)

Combinatorial
Immunoglobulin; Phage display; Peptide library (Krook, M. (221) 151)

Combinatorial libraries
Monoclonal recombinant antibodies (Burioni, R. (217) 195)

Competitive / noncompetitive inhibition
Monoclonal antibody; Real-time biomolecular interaction analysis (BIA); Urokinase plasminogen activator receptor; Urokinase (EC 3.4.21.73) (List, K. (222) 125)

Complement
Hemolysis; Hemoglobin; 2-7 diaminofluorene; Chimeric antibodies (Montaño, R.F. (222) 73)

Immunoenzyme techniques; Antigen–antibody complex (Arason, G.J. (223) 37)

Complement activation
Mannan-binding lectin (MBL); CHO expression system; Anti-viral activity (Ohtani, K. (222) 135)

Complementarity-determining region (CDR)
Humanized antibody; Tumor necrosis factor (TNF); Monoclonal antibody (Nagahira, K. (222) 83)

Complement receptor 1 (CD35)
Antigen–antibody complex; Systemic lupus erythematosus (Rafnar, B.O. (211) 171)

Computer model
Immunological methods; Statistics; Simulation; Mathematical model; Software; Immunological assays (Merrill, S.J. (216) 69)

Concanavalin A
Cytotoxic T lymphocytes; ^{51}Cr release assay; Virology (Andrew, M. (213) 103)

Conjugation
4-Acetyl benzoic acid; AOT; Mixed anhydride method; Reversed micelles; Lipid hapten; ELISA (Pauillac, S. (220) 105)

Cord blood mononuclear cells
Erythroid contamination; Cell separation; Anti-glycophorin A monoclonal antibody (10F7); Magnetic beads (Elliott, S.R. (217) 121)

Cowpea mosaic virus
HIV-1; gp41; Intranasal vaccine; Vaccine; Plant virus chimera; Antibody; IgA; T_H1 response (Durrani, Z. (220) 93)

C-reactive protein
RT-PCR; Quantitation; Acute phase proteins; Serum amyloid A protein; Serum amyloid P component; Apolipoprotein A (Jensen, L.E. (215) 45)

Cross-reactions
Immunological specificity; Nature of epitopes; Antibody structure; Antigenicity (Van Regenmortel, M.H.V. (216) 37)

^{51}Cr release assay
Cytotoxic T lymphocytes; Concanavalin A; Virology (Andrew, M. (213) 103)

Crude extract
Anti-cancer drugs; *Erwinia taxi*; Fluorescence polarization immunoassay; Serum; Paclitaxel; *Taxus* (Bicamumpaka, C. (212) 1)

CTL
Cell-mediated cytotoxicity; Natural killer activity; NK; Alamar-Blue; Fluorescence (Nociari, M.M. (213) 157)

CTLL-2
IL-2 sensitivity; MTT; Tritiated thymidine; Limiting dilution analysis; HTLp (Russell, C.A. (217) 165)

CTLL-2 cell line
IL-2 detection; HTLp; GVHD; A9.12 cell line (Winandy, M. (215) 81)

CTL precursor frequency
HCV–CTL response; Canarypox virus (Cohard, M. (214) 121)

Culture
Tumor infiltrating lymphocyte; SIL; Epithelium; Cervix; Cancer (Jacobs, N. (223) 123)

Culture method
Dendritic cells; Bone marrow; GM-CSF; Mouse (Lutz, M.B. (223) 77)

Culture monitoring
Apoptosis; Flow cytometry; pHi; *bcl-2*; Hybridoma; Annexin V (Ishaque, A. (221) 43)

Cutoff
Endpoint titer; Prediction limit; *t*-Statistic (Frey, A. (221) 35)

Cyto-Chex™
CD11b; Neutrophils; Human; Flow cytometry; Activation (Saxton, J.M. (214) 11)

Cytokine
Quantitative RT-PCR; mRNA; Bioluminescence; Aequorin; Radioimaging (Actor, J.K. (211) 65)

Biological assay; Cell line (Mire-Sluis, A.R. (211) 199)

Bioassay; Murine IL-18; Human cells; Recombinant DNA (Taniguchi, M. (217) 97)

Rat; Polymerase chain reaction; Digoxigenin (Damoiseaux, J.G.M.C. (217) 185)

Monocyte; Isolation; Rheumatoid arthritis (Rodenburg, R.J.T. (221) 169)

Cytokine assay
Luciferase; Cell viability; Cell growth; Stable transfectants (Coombe, D.R. (215) 145)

Cytokine immunoassays
Biological fluids; Antibodies (Wadhwa, M. (219) 1)

Cytokine mRNA
RT-PCR; Standard curves (Swiderski, C.E. (222) 155)

Cytokine mRNA quantification
Branched DNA (bDNA); Peripheral blood mononuclear cells (Shen, L.-P. (215) 123)

Cytokine production
Flow cytometry; Antigen-specific activation; Cytomegalovirus; Whole blood activation assay (Suni, M.A. (212) 89)

Cytokines
Dendritic cells; Langerhans cells; Chemokines; LPS stimulation; Immunocytochemistry (Loré, K. (214) 97)

Mixed leukocyte reaction; Serum free media (Bishara, A. (215) 187)

Recombinant DNA technology; Standardization; Assays (Mire-Sluis, A.R. (216) 103)

Ovarian cancer; Semiquantitative RT-PCR (Nash, M.A. (219) 169)

Flow cytometry; Intracellular staining; Lymphocytes; Kinetics (Mascher, B. (223) 115)

Cytolytic T lymphocytes
Vaccinia virus; Equine infectious anemia virus; Pokeweed mitogen; Equine (Hammond, S.A. (213) 73)

Cytomegalovirus
Flow cytometry; Antigen-specific activation; Cytokine production; Whole blood activation assay (Suni, M.A. (212) 89)

Cytotoxicity
Quantitation; Apoptosis; Annexin V binding; JAM test (Shounan, Y. (217) 61)

Cytotoxic T cells
HLA class I; Transgenic mice; β_2 microglobulin (Faulkner, L. (221) 1)

Cytotoxic T lymphocytes
Concanavalin A; ^{51}Cr release assay; Virology (Andrew, M. (213) 103)

D

D8 / 17
OCD; Flow cytometry (Chapman, F. (219) 181)

DEAE-dextran mediated transfection
Human macrophages; Luciferase; Transfection (Mack, K.D. (211) 79)

Dendritic cell
Maturation; Collagen; Lipopolysaccharide (Suri, R.M. (214) 149)

Dendritic cells
Langerhans cells; Cytokines; Chemokines; LPS stimulation; Immunocytochemistry (Loré, K. (214) 97)

Primary response; bcr–abl; T lymphocyte lines; Media; Tumour associated antigen (Mannering, S.I. (219) 69)

Leukocyte apheresis; Immunotherapy; Vaccination (Thurner, B. (223) 1)

Bone marrow; GM-CSF; Culture method; Mouse (Lutz, M.B. (223) 77)

Detection
Filtration; Immunoelectrochemistry; *E. coli* O157:H7; Bacteria (Brewster, J.D. (211) 1)

Solid phase immunoassay; Microplate; Magnetic beads; Bacteria; Rapid method (Yu, H. (218) 1)

Dextran
Multimeric; Adhesion; CD40; Hexahistidine; Lymphoma (Vassiliou, G. (215) 9)

Diabetes
Clinical studies; T Lymphocytes; Antigen presentation (Stevens, E.J. (215) 59)

Diagnostic
Galactosylhydroxylysine; ELISA; Bone resorption; Biochemical marker (Leigh, S.D. (220) 169)

2-7 diaminofluorene
Complement; Hemolysis; Hemoglobin; Chimeric antibodies (Montaño, R.F. (222) 73)

Differential scanning calorimetry
IgG2a antibodies; Protein A; Stability; Affinity (Kravchuk, Z.I. (217) 131)

Diffusion blotting
SDS-PAGE; Electrophoresis; Western blotting (Olsen, I. (220) 77)

Diffusion-in-gel
DIG-ELISA; EIA; ELISA; *Campylobacter*; Serology; Antibody (Gunnarsson, H. (215) 135)

DIG-ELISA
EIA; ELISA; *Campylobacter*; Serology; Antibody; Diffusion-in-gel (Gunnarsson, H. (215) 135)

Digoxigenin
Human thioredoxin; ELISA (Das, K.C. (211) 9)

Heterogeneous non-competitive flow immunoassay; Alkaline phosphatase; Peroxidase; Fluorescein; Digoxin; Fluorescence (Lindgren, A. (211) 33)

Cytokine; Rat; Polymerase chain reaction (Damoiseaux, J.G.M.C. (217) 185)

Digoxin
Heterogeneous non-competitive flow immunoassay; Alkaline phosphatase; Peroxidase; Fluorescein; Digoxigenin; Fluorescence (Lindgren, A. (211) 33)

Weak affinity chromatography (WAC); Low affinity monoclonal IgM antibody (Strandh, M. (214) 73)

Dihydrorhodamine
Neutrophil; Respiratory burst; Flow cytometry (Richardson, M.P. (219) 187)

Dimeric IgA
Polymeric IgR; Chinese hamster ovary cell; Transfectant (Asano, M. (214) 131)

Disease-specific stimulation
Whole blood culture; Ex vivo cytokine production; Tuberculosis (Van Crevel, R. (222) 145)

Displacement immunoassay
Fatty acid-binding protein; Immunosensor; On-line (Kaptein, W.A. (217) 103)

DNA adducts
Immuno-PCR assay; ELISA; Ultrasensitive detection; Peptide detection; O^6-methylguanine–DNA methyltransferase; O^6-methylguanosine; Pyruvate dehydrogenase complex; DNA repair (Case, M.C. (223) 93)

DNA assay
SYBR green I; Microtitre plate; ELISA (Myers, M.A. (212) 99)

DNA heteroduplex
T-cell receptor repertoire; Immune response; Nucleic acid population analysis (Shen, D.-F. (215) 113)

DNA repair
Immuno-PCR assay; ELISA; Ultrasensitive detection; Peptide detection; O^6-methylguanine–DNA methyltransferase; O^6-methylguanosine; Pyruvate dehydrogenase complex; DNA adducts (Case, M.C. (223) 93)

Dose-response curve
Human growth hormone; Somatotropin; Insulin potentiator; enzyme immunoassay; Monoclonal antibodies (López-Guajardo, C.C. (215) 179)

Dried whole blood spot
HLA-B27; Time-resolved fluorometry; Solution hybridisation; Group-specific amplification (Välimaa, L. (219) 131)

Drosophila melanogaster
Single chain Fv; Bacterial expression; Insect expression; Refolding; E-selectin; Adhesion molecules; Antibody engineering (Mahiouz, D.L. (212) 149)

E

EAE
Plasmid extraction; Electroporation; Lactic acid bacteria; Oral vaccination; Mucosal tolerance (Maassen, C.B.M. (223) 131)

Echinococcus
Hydatid disease; Protein A; Colloidal dye; Immunodot assay (Eliades, P. (218) 123)

E. coli
Macrophage; Killing; Invasion; *Yersinia enterocolitica* (De Koning-Ward, T.F. (215) 39)

E. coli expression
Fv fragment; Fab fragment; Human serum albumin; *Streptococcal* protein G (König, T. (218) 73)

E. coli O157:H7
Filtration; Immunoelectrochemistry; Bacteria; Detection (Brewster, J.D. (211) 1)

EGFR
Epidermal growth factor receptor; ErbB1; Soluble ErbB1; Acridinium-linked immunosorbent assay; Acridinium (Baron, A.T. (219) 23)

EIA
DIG-ELISA; ELISA; *Campylobacter*; Serology; Antibody; Diffusion-in-gel (Gunnarsson, H. (215) 135)

Electrophoresis
SDS-PAGE; Diffusion blotting; Western blotting (Olsen, I. (220) 77)

Electroporation
Peptide mediated import; Antennapedia; Transfection; Lymphocyte (Fenton, M. (212) 41)

Human eosinophils; Transfection (Ohyama, H. (215) 105)

Plasmid extraction; Lactic acid bacteria; Oral vaccination; Mucosal tolerance; EAE (Maassen, C.B.M. (223) 131)

ELISA
Human thioredoxin; Digoxigenin (Das, K.C. (211) 9)

Cell proliferation; Ki-67; Ki-S3 (Frahm, S.O. (211) 43)

Elution; Antibody–antigen interactions; Yolk antibodies; Immunoaffinity chromatography (Kummer, A. (211) 125)

SYBR green I; DNA assay; Microtitre plate (Myers, M.A. (212) 99)

Multiphosphorylated peptide; Casein; Anti-casein antibodies (Black, C.L. (214) 63)

DIG-ELISA; EIA; *Campylobacter*; Serology; Antibody; Diffusion-in-gel (Gunnarsson, H. (215) 135)

IL-4; sIL-4R (Jung, T. (217) 41)

Biodistribution; Monoclonal antibodies human; SCID mouse; Tumor; A549 adenocarcinoma cell line (Arai, K. (217) 79)

Immune complex dissociation; Quantitative antigen detection; p24 antigen; HIV-1 infection (Steindl, F. (217) 143)

CD105-TGFβ complex; Breast cancer; Plasma (Li, C.G. (218) 85)

VEGF; Human plasma; Immunoassay (Rodriguez, C.R. (219) 45)

IL-6; Soluble IL-6 receptor; Standardization (Krakauer, T. (219) 161)

Sm autoantigen; Epitopes; Autoantibodies; Sequential oligopeptide carriers (Petrovas, C.J. (220) 59)

4-Acetyl benzoic acid; AOT; Mixed anhydride method; Reversed micelles; Lipid hapten; Conjugation (Pauillac, S. (220) 105)

Galactosylhydroxylysine; Diagnostic; Bone resorption; Biochemical marker (Leigh, S.D. (220) 169)

Recombinant protein; Albumin binding protein; Affinity of albumin binding protein; Borna disease virus; BIACORE; Immobilization of protein (Baumann, S. (221) 95)

Peptide; Monoclonal antibody; Binding capacity; Solid-phase affinity; Liquid-phase affinity (Loomans, E.E.M.G. (221) 119)

IgG; IgA; HIV-1; gp120 MN; p24 LAI; Mucosal immunity (Raux, M. (222) 111)

Immuno-PCR assay; Ultrasensitive detection; Peptide detection; O^6-methylguanine–DNA methyltransferase; O^6-methylguanosine; Pyruvate dehydrogenase complex; DNA adducts; DNA repair (Case, M.C. (223) 93)

Elution
ELISA; Antibody–antigen interactions; Yolk antibodies; Immunoaffinity chromatography (Kummer, A. (211) 125)

Endocytosis
Biotinylation; MHC; TfR; APC (Turvy, D.N. (212) 9)

Endothelium
Transmigration assay; Neutrophils (Gröger, M. (222) 101)

Endotoxin bioassay
Chemiluminescence; Neutrophil activation (Romaschin, A.D. (212) 169)

Endpoint titer
Cutoff; Prediction limit; *t*-Statistic (Frey, A. (221) 35)

Enzyme immunoassay
Human growth hormone; Somatotropin; Insulin potentiator; Dose-response curve; Monoclonal antibodies (López-Guajardo, C.C. (215) 179)

Enzyme immunoassay
Intracellular levels; 5′-monophosphate-AZT (Goujon, L. (218) 19)

20 kDa-human growth hormone; 22 kDa-human growth hormone; Monkey growth hormone; Monoclonal antibody (Hashimoto, Y. (221) 77)

Enzyme immunometric assay
β-lactoglobulin; Thermal treatment; Monoclonal antibody; Acetylcholinesterase (Negroni, L. (220) 25)

Enzyme linked immunosorbent assay (ELISA)
AGEs, anti-AGE antibody; N^{ε}-(carboxymethyl)lysine (CML); Glycoxidation (Ikeda, K. (215) 95)

Eosinophil
Apoptosis; Necrosis; Annexin V; Kimura stain (Walsh, G.M. (217) 153)

Epidermal growth factor receptor
EGFR; ErbB1; Soluble ErbB1; Acridinium-linked immunosorbent assay; Acridinium (Baron, A.T. (219) 23)

Beads; Latex; Phycobiliproteins; CD3; CD4; Microspheres (Bhalgat, M.K. (219) 57)

Epithelium
Tumor infiltrating lymphocyte; SIL; Culture; Cervix; Cancer (Jacobs, N. (223) 123)

Epitope mapping
Bovine beta lactoglobulin; Phage display; PEPSCAN; Species/animals (Williams, S.C. (213) 1)

Epitopes
Sm autoantigen; ELISA; Autoantibodies; Sequential oligopeptide carriers (Petrovas, C.J. (220) 59)

Equilibrium / affinity constant (K_A)
Association/dissociation rate constants (k_{ass}, k_{diss}); β_2-microglobulin; IAsys™; Matrix effects; Viscosity (Morgan, C.L. (217) 51)

Equine
Cytolytic T lymphocytes; Vaccinia virus; Equine infectious anemia virus; Pokeweed mitogen (Hammond, S.A. (213) 73)

Equine infectious anemia virus
Cytolytic T lymphocytes; Vaccinia virus; Pokeweed mitogen; Equine (Hammond, S.A. (213) 73)

ErbB1
EGFR; Epidermal growth factor receptor; Soluble ErbB1; Acridinium-linked immunosorbent assay; Acridinium (Baron, A.T. (219) 23)

Erwinia taxi
Anti-cancer drugs; Fluorescence polarization immunoassay; Serum; Crude extract; Paclitaxel; *Taxus* (Bicamumpaka, C. (212) 1)

Erythrocyte complement receptor
Marburg virus; Heteropolymers (Nardin, A. (211) 21)

Erythroid contamination
Cord blood mononuclear cells; Cell separation; Anti-glycophorin A monoclonal antibody (10F7); Magnetic beads (Elliott, S.R. (217) 121)

Escherichia coli
Antibody engineering; Expression systems; Yeast; Insect cells; Mammalian cells; Single-chain F (Verma, R. (216) 165)

Antibodies; Antigen binding; $F(ab')_2$; Hinge; Serum stability (Humphreys, D.P. (217) 1)

Flow cytometry; Heat-stable enterotoxin; Receptor (Al-Majali, A.M. (222) 65)

E-selectin
Single chain Fv; Bacterial expression; Insect expression; *Drosophila melanogaster*; Refolding; Adhesion molecules; Antibody engineering (Mahiouz, D.L. (212) 149)

Europium
Major histocompatibility complex; Peptide binding; Antigen presentation (Jensen, P.E. (215) 71)

Expression plasmid
Fusion protein; Recombinant immunogen; Hydrophobic tag; Iscoms (Andersson, C. (222) 171)

Expression systems
Antibody engineering; *Escherichia coli*; Yeast; Insect cells; Mammalian cells; Single-chain F (Verma, R. (216) 165)

Ex vivo cytokine production
Whole blood culture; Disease-specific stimulation; Tuberculosis (Van Crevel, R. (222) 145)

F

$F(ab')_2$
Antibodies; Antigen binding; *Escherichia coli*; Hinge; Serum stability (Humphreys, D.P. (217) 1)

Fab fragment
E. coli expression; Fv fragment; Human serum albumin; *Streptococcal* protein G (König, T. (218) 73)

Fab fragments
Rabbit immunoglobulins; Phage display; Alkaline phosphatase; Recombinant antibody (Foti, M. (213) 201)

Fas ligand
JAM-test; Apoptosis; Tumor; T cell (Böhm, C. (217) 71)

Fatty acid-binding protein
Displacement immunoassay; Immunosensor; On-line (Kaptein, W.A. (217) 103)

FAVN test
Rabies neutralising antibody detection (Cliquet, F. (212) 79)

Fc receptor
Nitrocellulose particles; Receptor aggregation; Signal transduction; IgG; IgA (Gulle, H. (214) 199)

Feces
Saliva; IgA; IgG; Air-drying (Vetvik, H. (215) 163)

Female genital tract
Immunoglobulin; Mucosafe; Mucosal antibodies; Sexually transmitted diseases; Wick (Hordnes, K. (220) 151)

Fetal thymic organ culture
cDNA library; Polymerase chain reaction; Thymic stromal cells; Subtractive hybridization (Kim, M.G. (213) 169)

F. hepatica
Rat infection model; Gut migration (Van Milligen, F.J. (213) 183)

Fibrin gels
Locomotion; Chemotaxis; Filter assay; Chemokinesis; Visual assay; Polarization assay; Collagen; Orientation assay (Wilkinson, P.C. (216) 139)

Ficoll
Blocking-ELISA; Polysaccharide; Vaccine; Adjuvant (Hilgers, L.A.Th. (218) 105)

Filter assay
Locomotion; Chemotaxis; Chemokinesis; Visual assay; Polarization assay; Collagen; Fibrin gels; Orientation assay (Wilkinson, P.C. (216) 139)

Filtration
Immunoelectrochemistry; *E. coli* O157:H7; Bacteria; Detection (Brewster, J.D. (211) 1)

FITC
BODIPY FL; IL-6; Immunofluorescence; Blocking; Fluorochromes (Mahmudi-Azer, S. (217) 113)

Flourochromes
Immunoenzyme; Immunohistochemistry; Immunocytochemistry; Immunofluorescence; Antigen preservation (Brandtzaeg, P. (216) 49)

Flow cytometric assay
Cell adhesion; Mixed cell adhesion analysis; Lymphocyte subpopulation adhesion analysis (Bono, M.R. (223) 27)

Flow cytometry
Quantitation; Yeast burden; Viability (Chang, W.L. (211) 51)

Antigen-specific activation; Cytokine production; Cytomegalovirus; Whole blood activation assay (Suni, M.A. (212) 89)

Adherence; *Helicobacter* spp.; Gastric epithelial cell (Logan, R.P.H. (213) 19)

Macrophages; Phagosomes; MHC (Ramachandra, L. (213) 53)

Urine lymphocytes; Kidney transplant rejection (Stachowski, J. (213) 145)

CD11b; Neutrophils; Human; Activation; Cyto-Chex™ (Saxton, J.M. (214) 11)

Recombitant MHC; MHC class I multimers; T cell receptor-specific probes (Walter, J.B. (214) 41)

PKH26; Subpopulation (Allsopp, C.E.M. (214) 175)

Apoptosis; Phenotyping; Intracellular staining; Cell permeabilization (Lecoeur, H. (217) 11)

Rat–mouse chimera; CD45 (Balázs, M. (218) 117)

In vitro model; Superantigens; T cell differentiation; Th1/Th2; Intracellular cytokines; Serum-free medium (Gehring, S. (219) 85)

D8/17; OCD (Chapman, F. (219) 181)

Neutrophil; Respiratory burst; Dihydrorhodamine (Richardson, M.P. (219) 187)

Apoptosis; Culture monitoring; pHi; *bcl-2*; Hybridoma; Annexin V (Ishaque, A. (221) 43)

HIV-1; Tat protein (Gibellini, D. (221) 107)

Heat-stable enterotoxin; Receptor; *Escherichia coli* (Al-Majali, A.M. (222) 65)

CD4 T lymphocyte; Absolute CD4 count; Human immunodeficiency virus; Monoclonal antibody (Sherman, G.G. (222) 209)

Intracellular staining; Cytokines; Lymphocytes; Kinetics (Mascher, B. (223) 115)

Fluorescein
Heterogeneous non-competitive flow immunoassay; Alkaline phosphatase; Peroxidase; Digoxin; Digoxigenin; Fluorescence (Lindgren, A. (211) 33)

Heterogeneous fluoroimmunoassay; Solid-support for fluoroimmunoassays; Mouse IgG immunofluorometric assay; Thyroxin fluoroimmunoassay; Measurement of fluorescence on solid surface (Kakabakos, S.E. (222) 183)

Fluorescence
Heterogeneous non-competitive flow immunoassay; Alkaline phosphatase; Peroxidase; Fluorescein; Digoxin; Digoxigenin (Lindgren, A. (211) 33)

Leukocyte; Neutrophil; Migration; Chemotaxis; Interleukin-8; C5a; Calcein AM (Frevert, C.W. (213) 41)

Cell-mediated cytotoxicity; Natural killer activity; NK; CTL; AlamarBlue (Nociari, M.M. (213) 157)

Fluorescence assay
PicoGreen; Hoechst 33342; Propidium iodide; Papain; Primary cell cultures; Cell number quantification (Blaheta, R.A. (211) 159)

Fluorescence linked immunofiltration assay
Antibody; Relative fluorescence intensity; Heparin-induced thrombocytopenia (Wang, L. (222) 93)

Fluorescence polarisation
Antibody characterisation; Homogenous immunoassay; Triazines; Atrazine (Önnerfjord, P. (213) 31)

Fluorescence polarization immunoassay
Anti-cancer drugs; *Erwinia taxi*; Serum; Crude extract; Paclitaxel; *Taxus* (Bicamumpaka, C. (212) 1)

Fluorochromes
FITC; BODIPY FL; IL-6; Immunofluorescence; Blocking (Mahmudi-Azer, S. (217) 113)

Follicular dendritic cells
B cell antigens; Lymphocytes; Monoclonal antibodies; Pig; SWC7 (Bullido, R. (222) 1)

Fusion protein
Expression plasmid; Recombinant immunogen; Hydrophobic tag; Iscoms (Andersson, C. (222) 171)

Fv fragment
E. coli expression; Fab fragment; Human serum albumin; *Streptococcal* protein G (König, T. (218) 73)

G

Galactosylhydroxylysine
Diagnostic; ELISA; Bone resorption; Biochemical marker (Leigh, S.D. (220) 169)

Gastric epithelial cell
Adherence; *Helicobacter* spp.; Flow cytometry (Logan, R.P.H. (213) 19)

Gastrointestinal tract
Ast cells; c-kit receptor; CD117; Positive affinity-magnetic selection (Shah, P.M. (214) 141)

Gene gun immunization
Melanoma antigen; Recombinant anti-cancer vaccines; Polyclonal antisera (Surman, D.R. (214) 51)

Gene targeting
Homologous recombination; Immunoglobulin gene; Protein function; Hybridoma (Ng, P. (214) 81)

Germline ε transcript promoter
Human interleukin-4; Human growth hormone cDNA; Reporter gene (Jenh, C.-H. (217) 87)

Glucocorticoid receptor (GCR)
Monoclonal antibody (mAb); Intracellular flow cytometry; Permeabilization (Berki, T. (214) 19)

Glutamic acid decarboxylase
Immunoassay; Affinity chromatography; Immobilised glutathione; Glutathione *S*-transferase fusion protein; Antigen capture (Murray, A.M. (218) 133)

Glutathione
scFv; Refolding; Inclusion body; Human antibody (Tsumoto, K. (219) 119)

Glutathione *S*-transferase fusion protein
Immunoassay; Affinity chromatography; Immobilised glutathione; Antigen capture; Glutamic acid decarboxylase (Murray, A.M. (218) 133)

Glycoamidase A
Glycosylation; Immunoglobulin; HPLC; HPAEC; 2-AB and 2-AP labelled oligosaccharides; Biogel P4; Lectin binding assay; PNGase F (Routier, F.H. (213) 113)

Glycosphingolipid
Asialo-GM1; Monoclonal antibody; Protein–carbohydrate interactions; Surface plasmon resonance; Liposomes (Harrison, B.A. (212) 29)

Glycosylation
Immunoglobulin; HPLC; HPAEC; 2-AB and 2-AP labelled oligosaccharides; Biogel P4; Lectin binding assay; PNGase F; Glycoamidase A (Routier, F.H. (213) 113)

Glycoxidation
AGEs, anti-AGE antibody; N^{ε}-(carboxymethyl)lysine (CML); Enzyme linked immunosorbent assay (ELISA) (Ikeda, K. (215) 95)

GM-CSF
Dendritic cells; Bone marrow; Culture method; Mouse (Lutz, M.B. (223) 77)

g3p
Peptide-tag; Bacteriophage M13; Phage display; Single chain antibody; Affinity purification (Beckmann, C. (212) 131)

gp41
HIV-1; Intranasal vaccine; Vaccine; Plant virus chimera; Cowpea mosaic virus; Antibody; IgA; T_H1 response (Durrani, Z. (220) 93)

gp120 MN
ELISA; IgG; IgA; HIV-1; p24 LAI; Mucosal immunity (Raux, M. (222) 111)

gpVIII
Phage display; Recombinant antibody; Affinity binding (Chappel, J.A. (221) 25)

Granule enzyme release
Chemoattractant receptors; Monocytes; HL-60 cells; Multi-Screen® assay (Tiberghien, F. (223) 63)

Grating coupler sensor
Heart fatty acid-binding protein; Antigen–antibody interaction; Biosensor; Kinetic analysis (Orban, M. (215) 17)

Green fluorescent protein
Vaccinia virus; Peripheral blood leukocytes; Virus tropism (Domínguez, J. (220) 115)

Semliki Forest Virus; Polyethylene glycol; Signal transduction; Protein expression (Arudchandran, R. (222) 197)

Group-specific amplification
HLA-B27; Time-resolved fluorometry; Solution hybridisation; Dried whole blood spot (Välimaa, L. (219) 131)

Growth and metastasis of tumors
Leukocyte; Chemokines (Wang, J.M. (220) 1)

Gut migration
F. hepatica; Rat infection model (Van Milligen, F.J. (213) 183)

GVHD
IL-2 detection; HTLp; A9.12 cell line; CTLL-2 cell line (Winandy, M. (215) 81)

GvHD
BMT; HTLp; Alloreactivity; UV-B irradiation; X-irradiation (Russell, C.A. (220) 161)

H

HCV–CTL response
CTL precursor frequency; Canarypox virus (Cohard, M. (214) 121)

Heart fatty acid-binding protein
Grating coupler sensor; Antigen–antibody interaction; Biosensor; Kinetic analysis (Orban, M. (215) 17)

Heat-stable enterotoxin
Flow cytometry; Receptor; *Escherichia coli* (Al-Majali, A.M. (222) 65)

Heavy chain variable gene family
In situ hybridization; Oligonucleotide probes; B cells (Rundle, C.H. (218) 31)

Helicobacter spp.
Adherence; Gastric epithelial cell; Flow cytometry (Logan, R.P.H. (213) 19)

Hemoglobin
Complement; Hemolysis; 2-7 diaminofluorene; Chimeric antibodies (Montaño, R.F. (222) 73)

Hemolysis
Complement; Hemoglobin; 2-7 diaminofluorene; Chimeric antibodies (Montaño, R.F. (222) 73)

Heparin-induced thrombocytopenia
Antibody; Fluorescence linked immunofiltration assay; Relative fluorescence intensity (Wang, L. (222) 93)

HepG2
Immunoradiometric; Plasmodium; Sporozoite; Quantification (Sinnis, P. (221) 17)

Heterogeneous fluoroimmunoassay
Fluorescein; Solid-support for fluoroimmunoassays; Mouse IgG immunofluorometric assay; Thyroxin fluoroimmunoassay; Measurement of fluorescence on solid surface (Kakabakos, S.E. (222) 183)

Heterogeneous non-competitive flow immunoassay
Alkaline phosphatase; Peroxidase; Fluorescein; Digoxin; Digoxigenin; Fluorescence (Lindgren, A. (211) 33)

Heteropolymers
Marburg virus; Erythrocyte complement receptor (Nardin, A. (211) 21)

Hexahistidine
Multimeric; Adhesion; CD40; Dextran; Lymphoma (Vassiliou, G. (215) 9)

HFE
Tolerization; HLA-H; β_2-microglobulin; CD94; NKG2A (Lebrón, J.A. (222) 59)

High performance liquid affinity chromatography
Hybridoma screening; Weak affinity chromatography; Monoclonal antibodies; HPLC (Leickt, L. (220) 19)

Hinge
Antibodies; Antigen binding; *Escherichia coli*; $F(ab')_2$; Serum stability (Humphreys, D.P. (217) 1)

HIV-1
gp41; Intranasal vaccine; Vaccine; Plant virus chimera; Cowpea mosaic virus; Antibody; IgA; T_H1 response (Durrani, Z. (220) 93)

Tat protein; Flow cytometry (Gibellini, D. (221) 107)

ELISA; IgG; IgA; gp120 MN; p24 LAI; Mucosal immunity (Raux, M. (222) 111)

HIV-1 infection
Immune complex dissociation; Quantitative antigen detection; p24 antigen; ELISA (Steindl, F. (217) 143)

HL-60
Apoptosis; Necrosis; TUNEL; Trypan blue; Bronchoalveolar lavage (Pantelidis, P. (214) 209)

HLA-B27
Time-resolved fluorometry; Solution hybridisation; Group-specific amplification; Dried whole blood spot (Välimaa, L. (219) 131)

HLA class I
Transgenic mice; Cytotoxic T cells; β_2 microglobulin (Faulkner, L. (221) 1)

HLA-Cw
Tissue typing; Transplantation immunology; NK cells; NK cell receptors (Frohn, C. (218) 155)

HLA DRB1*0301
Synthetic peptide library; Binding motif; Ligands by random selection; Translational invariance (Jung, C. (219) 139)

HLA-H
Tolerization; HFE; β_2-microglobulin; CD94; NKG2A (Lebrón, J.A. (222) 59)

HL-60 cells
Chemoattractant receptors; Monocytes; Granule enzyme release; MultiScreen® assay (Tiberghien, F. (223) 63)

Hoechst 33342
PicoGreen; Propidium iodide; Papain; Primary cell cultures; Cell number quantification; Fluorescence assay (Blaheta, R.A. (211) 159)

Homogenous immunoassay
Antibody characterisation; Fluorescence polarisation; Triazines; Atrazine (Önnerfjord, P. (213) 31)

Homologous recombination
Gene targeting; Immunoglobulin gene; Protein function; Hybridoma (Ng, P. (214) 81)

HPAEC
Glycosylation; Immunoglobulin; HPLC; 2-AB and 2-AP labelled oligosaccharides; Biogel P4; Lectin binding assay; PNGase F; Glycoamidase A (Routier, F.H. (213) 113)

HPLC
Glycosylation; Immunoglobulin; HPAEC; 2-AB and 2-AP labelled oligosaccharides; Biogel P4; Lectin binding assay; PNGase F; Glycoamidase A (Routier, F.H. (213) 113)

Hybridoma screening; Weak affinity chromatography; Monoclonal antibodies; High performance liquid affinity chromatography (Leickt, L. (220) 19)

HTLp
IL-2 detection; GVHD; A9.12 cell line; CTLL-2 cell line (Winandy, M. (215) 81)

IL-2 sensitivity; CTLL-2; MTT; Tritiated thymidine; Limiting dilution analysis (Russell, C.A. (217) 165)

BMT; GvHD; Alloreactivity; UV-B irradiation; X-irradiation (Russell, C.A. (220) 161)

Human
ANCA; Capture ELISA; Mast cell; Proteinase 3; Wegener's granulomatosis (Sun, J. (211) 111)

Antibodies; Immunoconjugates; Oligosaccharides; Immunotherapy (Qu, Z. (213) 131)

CD11b; Neutrophils; Flow cytometry; Activation; Cyto-Chex™ (Saxton, J.M. (214) 11)

Human antibody
scFv; Refolding; Inclusion body; Glutathione (Tsumoto, K. (219) 119)

Human cells
Cytokine; Bioassay; Murine IL-18; Recombinant DNA (Taniguchi, M. (217) 97)

Human eosinophils
Transfection; Electroporation (Ohyama, H. (215) 105)

Human growth hormone
Somatotropin; Insulin potentiator; enzyme immunoassay; Dose-response curve; Monoclonal antibodies (López-Guajardo, C.C. (215) 179)

Human growth hormone cDNA
Human interleukin-4; Reporter gene; Germline ε transcript promoter (Jenh, C.-H. (217) 87)

Human immunodeficiency virus
CD4 T lymphocyte; Absolute CD4 count; Flow cytometry; Monoclonal antibody (Sherman, G.G. (222) 209)

Human interleukin-4
Human growth hormone cDNA; Reporter gene; Germline ε transcript promoter (Jenh, C.-H. (217) 87)

Humanized antibody
Tumor necrosis factor (TNF); Complementarity-determining region (CDR); Monoclonal antibody (Nagahira, K. (222) 83)

Humanized anti-Tac antibody
Antigen; Bioactivity (Hagg, D.S. (219) 7)

Human macrophages
DEAE-dextran mediated transfection; Luciferase; Transfection (Mack, K.D. (211) 79)

Human plasma
VEGF; ELISA; Immunoassay (Rodriguez, C.R. (219) 45)

Human serum albumin
E. coli expression; Fv fragment; Fab fragment; *Streptococcal* protein G (König, T. (218) 73)

Human thioredoxin
ELISA; Digoxigenin (Das, K.C. (211) 9)

Hybridoma
Homologous recombination; Gene targeting; Immunoglobulin gene; Protein function (Ng, P. (214) 81)

Apoptosis; Flow cytometry; Culture monitoring; pHi; *bcl-2*; Annexin V (Ishaque, A. (221) 43)

Hybridoma screening
Weak affinity chromatography; Monoclonal antibodies; HPLC; High performance liquid affinity chromatography (Leickt, L. (220) 19)

Hydatid disease
Echinococcus; Protein A; Colloidal dye; Immunodot assay (Eliades, P. (218) 123)

Hydration forces
Particle-enhanced immunoassay; IgG and $F(ab')_2$ antibodies; Colloidal stability (Molina-Bolívar, J.A. (211) 87)

Hydrophobic tag
Expression plasmid; Fusion protein; Recombinant immunogen; Iscoms (Andersson, C. (222) 171)

I

IAsys™
Association/dissociation rate constants (k_{ass}, k_{diss}); Equilibrium/affinity constant (K_A); β_2-microglobulin; Matrix effects; Viscosity (Morgan, C.L. (217) 51)

ICAM-1
LFA-1; Soluble LFA-1; Inflammation (Tominaga, Y. (212) 61)

IgA
Nitrocellulose particles; Fc receptor; Receptor aggregation; Signal transduction; IgG (Gulle, H. (214) 199)

Saliva; Feces; IgG; Air-drying (Vetvik, H. (215) 163)

HIV-1; gp41; Intranasal vaccine; Vaccine; Plant virus chimera; Cowpea mosaic virus; Antibody; T_H1 response (Durrani, Z. (220) 93)

ELISA; IgG; HIV-1; gp120 MN; p24 LAI; Mucosal immunity (Raux, M. (222) 111)

IgA nephropathy
Jacalin; Lectin; Immunoglobulin A; $CD4^+$ T lymphocytes; O-linked glycoproteins (Kabir, S. (212) 193)

IgE
Affinity distribution function (Pierson, L. (211) 97)

Olea europaea; Ole e 1; Allergens; Standardization; Pollen; Skin test (Boluda, L. (223) 17)

IgG
Nitrocellulose particles; Fc receptor; Receptor aggregation; Signal transduction; IgA (Gulle, H. (214) 199)

Saliva; Feces; IgA; Air-drying (Vetvik, H. (215) 163)

ELISA; IgA; HIV-1; gp120 MN; p24 LAI; Mucosal immunity (Raux, M. (222) 111)

IgG2a
Igh1 allele; Immunoglobulin isotyping; IgG2c (Martin, R.M. (212) 187)

IgG2a antibodies
Protein A; Differential scanning calorimetry; Stability; Affinity (Kravchuk, Z.I. (217) 131)

IgG and $F(ab')_2$ antibodies
Particle-enhanced immunoassay; Hydration forces; Colloidal stability (Molina-Bolívar, J.A. (211) 87)

IgG2c
Igh1 allele; Immunoglobulin isotyping; IgG2a (Martin, R.M. (212) 187)

Igh1 allele
Immunoglobulin isotyping; IgG2a; IgG2c (Martin, R.M. (212) 187)

IL-4
Rat; Bioassay (Ramírez, F. (221) 141)

IL-4
Transfection; Reporter gene; Primary T cells (Huang, H. (215) 173)

sIL-4R; ELISA (Jung, T. (217) 41)

IL-6
ELISA; Soluble IL-6 receptor; Standardization (Krakauer, T. (219) 161)

IL-6
FITC; BODIPY FL; Immunofluorescence; Blocking; Fluorochromes (Mahmudi-Azer, S. (217) 113)

IL-10
TNF-α; Whole blood culture; Reproducibility (Van der Linden, M.W. (218) 63)

IL-2 detection
HTLp; GVHD; A9.12 cell line; CTLL-2 cell line (Winandy, M. (215) 81)

IL-2 sensitivity
CTLL-2; MTT; Tritiated thymidine; Limiting dilution analysis; HTLp (Russell, C.A. (217) 165)

Immobilised glutathione
Immunoassay; Affinity chromatography; Glutathione *S*-transferase fusion protein; Antigen capture; Glutamic acid decarboxylase (Murray, A.M. (218) 133)

Immobilization of protein
Recombinant protein; Albumin binding protein; Affinity of albumin binding protein; Borna disease virus; BIACORE; ELISA (Baumann, S. (221) 95)

Immune complex dissociation
Quantitative antigen detection; p24 antigen; HIV-1 infection; ELISA (Steindl, F. (217) 143)

Immune response
DNA heteroduplex; T-cell receptor repertoire; Nucleic acid population analysis (Shen, D.-F. (215) 113)

Immunoaffinity chromatography
Elution; ELISA; Antibody–antigen interactions; Yolk antibodies (Kummer, A. (211) 125)

Immunoassay
Mycothiol; Mycobacteria (Unson, M.D. (214) 29)

Affinity chromatography; Immobilised glutathione; Glutathione *S*-transferase fusion protein; Antigen capture; Glutamic acid decarboxylase (Murray, A.M. (218) 133)

VEGF; ELISA; Human plasma (Rodriguez, C.R. (219) 45)

Immunoassays
Standardization; Biological potency; International units (Thorpe, R. (216) 93)

Immunoblotting
Monoclonal antibodies; Paraffin wax embedded tissue; Immunohistochemistry (Moran, E. (219) 151)

Immunochemistry
Antibodies; MHC; T-cell receptors; Phage display (Weidanz, J.A. (221) 59)

Immunoconjugates
Human; Antibodies; Oligosaccharides; Immunotherapy (Qu, Z. (213) 131)

Immunocytochemistry
Dendritic cells; Langerhans cells; Cytokines; Chemokines; LPS stimulation (Loré, K. (214) 97)

Immunoenzyme; Immunohistochemistry; Immunofluorescence; Flourochromes; Antigen preservation (Brandtzaeg, P. (216) 49)

Immunodot assay
Hydatid disease; *Echinococcus*; Protein A; Colloidal dye (Eliades, P. (218) 123)

Immunoelectrochemistry
Filtration; *E. coli* O157:H7; Bacteria; Detection (Brewster, J.D. (211) 1)

Immunoenzyme
Immunohistochemistry; Immunocytochemistry; Immunofluorescence; Flourochromes; Antigen preservation (Brandtzaeg, P. (216) 49)

Immunoenzyme techniques
Antigen–antibody complex; Complement (Arason, G.J. (223) 37)

Immunofluorescence
Immunoenzyme; Immunohistochemistry; Immunocytochemistry; Flourochromes; Antigen preservation (Brandtzaeg, P. (216) 49)

FITC; BODIPY FL; IL-6; Blocking; Fluorochromes (Mahmudi-Azer, S. (217) 113)

Immunoglobulin
Allergen; Pregnancy (Henderson, C.E. (213) 99)

Glycosylation; HPLC; HPAEC; 2-AB and 2-AP labelled oligosaccharides; Biogel P4; Lectin binding assay; PNGase F; Glycoamidase A (Routier, F.H. (213) 113)

Antibody; Affinity chromatography; Thiophilic adsorption; Autoantibodies (Scholz, G.H. (219) 109)

Female genital tract; Mucosafe; Mucosal antibodies; Sexually transmitted diseases; Wick (Hordnes, K. (220) 151)

Phage display; Combinatorial; Peptide library (Krook, M. (221) 151)

Immunoglobulin A
Jacalin; Lectin; $CD4^+$ T lymphocytes; IgA nephropathy; O-linked glycoproteins (Kabir, S. (212) 193)

Immunoglobulin gene
Homologous recombination; Gene targeting; Protein function; Hybridoma (Ng, P. (214) 81)

Immunoglobulin gene replacements
Chimeric antibodies (Pluschke, G. (215) 27)

Immunoglobulin isotyping
Igh1 allele; IgG2a; IgG2c (Martin, R.M. (212) 187)

Immunoglobulins
Naural autoantibodies; Autoreactivity; Repertoires (Lacroix-Desmazes, S. (216) 117)

Immunoglobulin Y
Thiophilic chromatography (Hansen, P. (215) 1)

Immunohistochemistry
Immunoenzyme; Immunocytochemistry; Immunofluorescence; Flourochromes; Antigen preservation (Brandtzaeg, P. (216) 49)

Monoclonal antibodies; Paraffin wax embedded tissue; Immunoblotting (Moran, E. (219) 151)

Immunolabelling
rRNA; Oligonucleotide probe; Bacterial identification (Ramage, G. (212) 139)

Immunological assays
Immunological methods; Statistics; Simulation; Computer model; Mathematical model; Software (Merrill, S.J. (216) 69)

Immunological methods
Statistics; Simulation; Computer model; Mathematical model; Software; Immunological assays (Merrill, S.J. (216) 69)

Immunological specificity
Nature of epitopes; Cross-reactions; Antibody structure; Antigenicity (Van Regenmortel, M.H.V. (216) 37)

Immunometric assay
Surface plasmon resonance; Luteinizing hormone; Avidin–biotin (Pearson, J.E. (221) 87)

Immuno-PCR assay
ELISA; Ultrasensitive detection; Peptide detection; O^6-methylguanine–DNA methyltransferase; O^6-methylguanosine; Pyruvate dehydrogenase complex; DNA adducts; DNA repair (Case, M.C. (223) 93)

Immunoradiometric
Plasmodium; Sporozoite; HepG2; Quantification (Sinnis, P. (221) 17)

Immunosensor
Fatty acid-binding protein; Displacement immunoassay; On-line (Kaptein, W.A. (217) 103)

Immunotargeting
Photosensitization; Monoclonal antibody conjugate; T lymphocyte; Thy-1 (Berki, T. (211) 139)

Immunotherapy
Human; Antibodies; Immunoconjugates; Oligosaccharides (Qu, Z. (213) 131)

Dendritic cells; Leukocyte apheresis; Vaccination (Thurner, B. (223) 1)

Immunotoxin
SCID/PBL; CD3; Lymphoproliferative disease (Clinchy, B. (218) 141)

Inclusion body
scFv; Refolding; Glutathione; Human antibody (Tsumoto, K. (219) 119)

Inflammation
ICAM-1; LFA-1; Soluble LFA-1 (Tominaga, Y. (212) 61)

Inhibition ELISA
Phage display; Recombinant Fab; Pseudouridine; Serum sample (Itoh, K. (223) 107)

Insect cells
Antibody engineering; Expression systems; *Escherichia coli*; Yeast; Mammalian cells; Single-chain F (Verma, R. (216) 165)

Insect expression
Single chain Fv; Bacterial expression; *Drosophila melanogaster*; Refolding; E-selectin; Adhesion molecules; Antibody engineering (Mahiouz, D.L. (212) 149)

In situ hybridization
Oligonucleotide probes; B cells; Heavy chain variable gene family (Rundle, C.H. (218) 31)

Insulin potentiator
Human growth hormone; Somatotropin; enzyme immunoassay; Dose-response curve; Monoclonal antibodies (López-Guajardo, C.C. (215) 179)

Interferon-γ
Superantigen; Staphylococcal enterotoxin B; Bacteria; Splenocytes; Cell culture (Mason, K.M. (211) 147)

Interferon type I
Sendai virus; Vesicular stomatitis virus; Virus inactivation (Perler, L. (222) 189)

Interleukin-8
Leukocyte; Neutrophil; Migration; Chemotaxis; C5a; Fluorescence; Calcein AM (Frevert, C.W. (213) 41)

International standard
SAA; Collaborative study (Poole, S. (214) 1)

International units
Standardization; Biological potency; Immunoassays (Thorpe, R. (216) 93)

Intracellular cytokines
In vitro model; Superantigens; T cell differentiation; Th1/Th2; Flow cytometry; Serum-free medium (Gehring, S. (219) 85)

Intracellular flow cytometry
Glucocorticoid receptor (GCR); Monoclonal antibody (mAb); Permeabilization (Berki, T. (214) 19)

Intracellular levels
5′-monophosphate-AZT; Enzyme immunoassay (Goujon, L. (218) 19)

Intracellular staining
Apoptosis; Flow cytometry; Phenotyping; Cell permeabilization (Lecoeur, H. (217) 11)

Flow cytometry; Cytokines; Lymphocytes; Kinetics (Mascher, B. (223) 115)

Intranasal vaccine
HIV-1; gp41; Vaccine; Plant virus chimera; Cowpea mosaic virus; Antibody; IgA; T_H1 response (Durrani, Z. (220) 93)

Invasion
Macrophage; Killing; *Yersinia enterocolitica*; *E. coli* (De Koning-Ward, T.F. (215) 39)

In vitro model
Superantigens; T cell differentiation; Th1/Th2; Intracellular cytokines; Flow cytometry; Serum-free medium (Gehring, S. (219) 85)

Iscoms
Expression plasmid; Fusion protein; Recombinant immunogen; Hydrophobic tag (Andersson, C. (222) 171)

Islet cell autoantibodies
Autoimmunity; Radio-antigen binding assay; MicroSepharose; ROC curve; Type 1 diabetes (Schranz, D.B. (213) 87)

Isolation
Monocyte; Cytokine; Rheumatoid arthritis (Rodenburg, R.J.T. (221) 169)

J

Jacalin
Lectin; Immunoglobulin A; $CD4^+$ T lymphocytes; IgA nephropathy; O-linked glycoproteins (Kabir, S. (212) 193)

JAM test
Quantitation; Apoptosis; Cytotoxicity; Annexin V binding (Shounan, Y. (217) 61)

JAM-test
Apoptosis; Fas ligand; Tumor; T cell (Böhm, C. (217) 71)

K

20 kDa-human growth hormone
22 kDa-human growth hormone; Monkey growth hormone; Monoclonal antibody; Enzyme immunoassay (Hashimoto, Y. (221) 77)

22 kDa-human growth hormone
20 kDa-human growth hormone; Monkey growth hormone; Monoclonal antibody; Enzyme immunoassay (Hashimoto, Y. (221) 77)

K562 erythroleukaemic cells
Whole blood; Natural killer cell assay; NK cells (Bromelow, K.V. (217) 177)

Ki-67
ELISA; Cell proliferation; Ki-S3 (Frahm, S.O. (211) 43)

Kidney transplant rejection
Urine lymphocytes; Flow cytometry (Stachowski, J. (213) 145)

Killing
Macrophage; Invasion; *Yersinia enterocolitica*; *E. coli* (De Koning-Ward, T.F. (215) 39)

Kimura stain
Eosinophil; Apoptosis; Necrosis; Annexin V (Walsh, G.M. (217) 153)

Kinetic analysis
Grating coupler sensor; Heart fatty acid-binding protein; Antigen–antibody interaction; Biosensor (Orban, M. (215) 17)

Kinetics
Flow cytometry; Intracellular staining; Cytokines; Lymphocytes (Mascher, B. (223) 115)

Ki-S3
ELISA; Cell proliferation; Ki-67 (Frahm, S.O. (211) 43)

L

Labeled peptide
Surface interaction; Polystyrene; Tritium label (Loomans, E.E.M.G. (221) 131)

Labelling
Lymphocyte; Technetium; Colitis (Jaakkola, K. (214) 187)

Lactic acid bacteria
Plasmid extraction; Electroporation; Oral vaccination; Mucosal tolerance; EAE (Maassen, C.B.M. (223) 131)

Langerhans cells
Dendritic cells; Cytokines; Chemokines; LPS stimulation; Immunocytochemistry (Loré, K. (214) 97)

Latex
Beads; Phycobiliproteins; Epidermal growth factor receptor; CD3; CD4; Microspheres (Bhalgat, M.K. (219) 57)

LBA
AFP; Sulfated tyrosine octamer; Sulfated peptide (Yamagata, Y. (212) 161)

Lectin
Jacalin; Immunoglobulin A; $CD4^+$ T lymphocytes; IgA nephropathy; O-linked glycoproteins (Kabir, S. (212) 193)

Lectin binding assay
Glycosylation; Immunoglobulin; HPLC; HPAEC; 2-AB and 2-AP labelled oligosaccharides; Biogel P4; PNGase F; Glycoamidase A (Routier, F.H. (213) 113)

L_6E_9 myoblasts
Trypanosoma cruzi; Uracil incorporation (Yan, W. (220) 123)

Leukocyte
Neutrophil; Migration; Chemotaxis; Interleukin-8; C5a; Fluorescence; Calcein AM (Frevert, C.W. (213) 41)

Chemokines; Growth and metastasis of tumors (Wang, J.M. (220) 1)

Leukocyte apheresis
Dendritic cells; Immunotherapy; Vaccination (Thurner, B. (223) 1)

LFA-1
ICAM-1; Soluble LFA-1; Inflammation (Tominaga, Y. (212) 61)

Ligands by random selection
Synthetic peptide library; HLA DRB1*0301; Binding motif; Translational invariance (Jung, C. (219) 139)

Limiting dilution analysis
IL-2 sensitivity; CTLL-2; MTT; Tritiated thymidine; HTLp (Russell, C.A. (217) 165)

Lipid hapten
4-Acetyl benzoic acid; AOT; Mixed anhydride method; Reversed micelles; Conjugation; ELISA (Pauillac, S. (220) 105)

Lipopolysaccharide
Dendritic cell; Maturation; Collagen (Suri, R.M. (214) 149)

Liposomes
Glycosphingolipid; Asialo-GM1; Monoclonal antibody; Protein–carbohydrate interactions; Surface plasmon resonance (Harrison, B.A. (212) 29)

Liquid-phase affinity
Peptide; Monoclonal antibody; ELISA; Binding capacity; Solid-phase affinity (Loomans, E.E.M.G. (221) 119)

Listeria monocytogenes
Bone marrow; Cellular composition; CD31; Ly-6C (De Bruijn, M.F.T.R. (217) 27)

Locomotion
Chemotaxis; Filter assay; Chemokinesis; Visual assay; Polarization assay; Collagen; Fibrin gels; Orientation assay (Wilkinson, P.C. (216) 139)

Low affinity monoclonal IgM antibody
Weak affinity chromatography (WAC); Digoxin (Strandh, M. (214) 73)

LPS stimulation
Dendritic cells; Langerhans cells; Cytokines; Chemokines; Immunocytochemistry (Loré, K. (214) 97)

Luciferase
Human macrophages; DEAE-dextran mediated transfection; Transfection (Mack, K.D. (211) 79)

Cell viability; Cell growth; Cytokine assay; Stable transfectants (Coombe, D.R. (215) 145)

Lung lavage
Surfactant proteins; Purification; Collectins; Carbohydrate recognition domains; Amniotic fluid (Strong, P. (220) 139)

Luteinizing hormone
Surface plasmon resonance; Immunometric assay; Avidin–biotin (Pearson, J.E. (221) 87)

Ly-6C
Bone marrow; Cellular composition; *Listeria monocytogenes*; CD31 (De Bruijn, M.F.T.R. (217) 27)

Lymphocyte
Peptide mediated import; Antennapedia; Transfection; Electroporation (Fenton, M. (212) 41)

Labelling; Technetium; Colitis (Jaakkola, K. (214) 187)

Lymphocytes
B cell antigens; Follicular dendritic cells; Monoclonal antibodies; Pig; SWC7 (Bullido, R. (222) 1)

Flow cytometry; Intracellular staining; Cytokines; Kinetics (Mascher, B. (223) 115)

Lymphocyte subpopulation adhesion analysis
Cell adhesion; Flow cytometric assay; Mixed cell adhesion analysis (Bono, M.R. (223) 27)

Lymphoma
Multimeric; Adhesion; CD40; Dextran; Hexahistidine (Vassiliou, G. (215) 9)

Lymphoproliferative disease
SCID/PBL; Immunotoxin; CD3 (Clinchy, B. (218) 141)

M

Macrophage
Killing; Invasion; *Yersinia enterocolitica*; *E. coli* (De Koning-Ward, T.F. (215) 39)

Macrophages
Phagosomes; Flow cytometry; MHC (Ramachandra, L. (213) 53)

Magnetic beads
Cord blood mononuclear cells; Erythroid contamination; Cell separation; Anti-glycophorin A monoclonal antibody (10F7) (Elliott, S.R. (217) 121)

Solid phase immunoassay; Microplate; Bacteria; Detection; Rapid method (Yu, H. (218) 1)

Major histocompatibility complex
Europium; Peptide binding; Antigen presentation (Jensen, P.E. (215) 71)

Mammalian cells
Antibody engineering; Expression systems; *Escherichia coli*; Yeast; Insect cells; Single-chain F (Verma, R. (216) 165)

Mannan-binding lectin (MBL)
CHO expression system; Anti-viral activity; Complement activation (Ohtani, K. (222) 135)

Marburg virus
Erythrocyte complement receptor; Heteropolymers (Nardin, A. (211) 21)

Mast cell
ANCA; Capture ELISA; Human; Proteinase 3; Wegener's granulomatosis (Sun, J. (211) 111)

Mathematical model
Immunological methods; Statistics; Simulation; Computer model; Software; Immunological assays (Merrill, S.J. (216) 69)

Matrix effects
Association/dissociation rate constants (k_{ass}, k_{diss}); Equilibrium/affinity constant (K_A); β_2-microglobulin; IAsys™; Viscosity (Morgan, C.L. (217) 51)

Maturation
Dendritic cell; Collagen; Lipopolysaccharide (Suri, R.M. (214) 149)

Measles
Antibody-dependent cellular cytotoxicity; Antibody-dependent cell-mediated immunity; Virus inhibition (Forthal, D.N. (220) 129)

Measurement of fluorescence on solid surface
Heterogeneous fluoroimmunoassay; Fluorescein; Solid-support for fluoroimmunoassays; Mouse IgG immunofluorometric assay; Thyroxin fluoroimmunoassay (Kakabakos, S.E. (222) 183)

Media
Dendritic cells; Primary response; bcr–abl; T lymphocyte lines; Tumour associated antigen (Mannering, S.I. (219) 69)

Melanoma antigen
Recombinant anti-cancer vaccines; Gene gun immunization; Polyclonal antisera (Surman, D.R. (214) 51)

Messenger ribonucleic acid detection
Tumour necrosis factor-α; Nucleic acid sequence based amplification (Darke, B.M. (212) 19)

MHC
Biotinylation; TfR; Endocytosis; APC (Turvy, D.N. (212) 9)

Macrophages; Phagosomes; Flow cytometry (Ramachandra, L. (213) 53)

Antibodies; T-cell receptors; Immunochemistry; Phage display (Weidanz, J.A. (221) 59)

MHC class I multimers
Recombitant MHC; T cell receptor-specific probes; Flow cytometry (Walter, J.B. (214) 41)

MHC-peptide
T cell stimulation; Microphysiometer; Acidification rates; TCR interaction (Arimilli, S. (212) 49)

Micro-electrofusion
bsMab; Biotin (Cao, Y. (220) 85)

Microphysiometer
T cell stimulation; Acidification rates; MHC-peptide; TCR interaction (Arimilli, S. (212) 49)

Microplate
Solid phase immunoassay; Magnetic beads; Bacteria; Detection; Rapid method (Yu, H. (218) 1)

MicroSepharose
Autoimmunity; Radio-antigen binding assay; Islet cell autoantibodies; ROC curve; Type 1 diabetes (Schranz, D.B. (213) 87)

Microspheres
Beads; Latex; Phycobiliproteins; Epidermal growth factor receptor; CD3; CD4 (Bhalgat, M.K. (219) 57)

Microtitre plate
SYBR green I; DNA assay; ELISA (Myers, M.A. (212) 99)

Migration
Leukocyte; Neutrophil; Chemotaxis; Interleukin-8; C5a; Fluorescence; Calcein AM (Frevert, C.W. (213) 41)

Mixed anhydride method
4-Acetyl benzoic acid; AOT; Reversed micelles; Lipid hapten; Conjugation; ELISA (Pauillac, S. (220) 105)

Mixed cell adhesion analysis
Cell adhesion; Flow cytometric assay; Lymphocyte subpopulation adhesion analysis (Bono, M.R. (223) 27)

Mixed leukocyte reaction
Serum free media; Cytokines (Bishara, A. (215) 187)

Monkey growth hormone
20 kDa-human growth hormone; 22 kDa-human growth hormone; Monoclonal antibody; Enzyme immunoassay (Hashimoto, Y. (221) 77)

Monoclonal and polyclonal antibodies
Tumour immunotherapy; B cells (Haimovich, J. (214) 113)

Monoclonal antibodies
Human growth hormone; Somatotropin; Insulin potentiator; enzyme immunoassay; Dose-response curve (López-Guajardo, C.C. (215) 179)

Paraffin wax embedded tissue; Immunohistochemistry; Immunoblotting (Moran, E. (219) 151)

Hybridoma screening; Weak affinity chromatography; HPLC; High performance liquid affinity chromatography (Leickt, L. (220) 19)

B cell antigens; Follicular dendritic cells; Lymphocytes; Pig; SWC7 (Bullido, R. (222) 1)

Monoclonal antibodies human
Biodistribution; ELISA; SCID mouse; Tumor; A549 adenocarcinoma cell line (Arai, K. (217) 79)

Monoclonal antibody
Glycosphingolipid; Asialo-GM1; Protein–carbohydrate interactions; Surface plasmon resonance; Liposomes (Harrison, B.A. (212) 29)

Pharmacokinetics; Blocking ELISA; Adjuvant; Polysaccharide; Vaccine (Hilgers, L.A.Th. (218) 95)

β-lactoglobulin; Thermal treatment; Enzyme immunometric assay; Acetylcholinesterase (Negroni, L. (220) 25)

Tobacco mosaic virus; Plant virus vector and plant-expressed antibody (Verch, T. (220) 69)

20 kDa-human growth hormone; 22 kDa-human growth hormone; Monkey growth hormone; Enzyme immunoassay (Hashimoto, Y. (221) 77)

Peptide; ELISA; Binding capacity; Solid-phase affinity; Liquid-phase affinity (Loomans, E.E.M.G. (221) 119)

Humanized antibody; Tumor necrosis factor (TNF); Complementarity-determining region (CDR) (Nagahira, K. (222) 83)

Real-time biomolecular interaction analysis (BIA); Urokinase plasminogen activator receptor; Competitive/noncompetitive inhibition; Urokinase (EC 3.4.21.73) (List, K. (222) 125)

CD4 T lymphocyte; Absolute CD4 count; Human immunodeficiency virus; Flow cytometry (Sherman, G.G. (222) 209)

Monoclonal antibody conjugate
Immunotargeting; Photosensitization; T lymphocyte; Thy-1 (Berki, T. (211) 139)

Monoclonal antibody (mAb)
Glucocorticoid receptor (GCR); Intracellular flow cytometry; Permeabilization (Berki, T. (214) 19)

Monoclonal recombinant antibodies
Combinatorial libraries (Burioni, R. (217) 195)

Monocyte
Isolation; Cytokine; Rheumatoid arthritis (Rodenburg, R.J.T. (221) 169)

Monocytes
Chemoattractant receptors; HL-60 cells; Granule enzyme release; MultiScreen® assay (Tiberghien, F. (223) 63)

5′-monophosphate-AZT
Intracellular levels; Enzyme immunoassay (Goujon, L. (218) 19)

Monospecific antibody
Affinity chromatography; Peptide epitopes; Phage display (Smith, G.P. (215) 151)

Mouse
Dendritic cells; Bone marrow; GM-CSF; Culture method (Lutz, M.B. (223) 77)

Mouse IgG immunofluorometric assay
Heterogeneous fluoroimmunoassay; Fluorescein; Solid-support for fluoroimmunoassays; Thyroxin fluoroimmunoassay; Measurement of fluorescence on solid surface (Kakabakos, S.E. (222) 183)

mRNA
Quantitative RT-PCR; Cytokine; Bioluminescence; Aequorin; Radioimaging (Actor, J.K. (211) 65)

MTT
IL-2 sensitivity; CTLL-2; Tritiated thymidine; Limiting dilution analysis; HTLp (Russell, C.A. (217) 165)

Mucosafe
Female genital tract; Immunoglobulin; Mucosal antibodies; Sexually transmitted diseases; Wick (Hordnes, K. (220) 151)

Mucosal antibodies
Female genital tract; Immunoglobulin; Mucosafe; Sexually transmitted diseases; Wick (Hordnes, K. (220) 151)

Mucosal immunity
ELISA; IgG; IgA; HIV-1; gp120 MN; p24 LAI (Raux, M. (222) 111)

Mucosal tolerance
Plasmid extraction; Electroporation; Lactic acid bacteria; Oral vaccination; EAE (Maassen, C.B.M. (223) 131)

Multimeric
Adhesion; CD40; Dextran; Hexahistidine; Lymphoma (Vassiliou, G. (215) 9)

Multiphosphorylated peptide
ELISA; Casein; Anti-casein antibodies (Black, C.L. (214) 63)

Multiple sclerosis
TCR expression; TCR V gene usage; PCR-ELISA; Autoimmunity; Rheumatoid arthritis (VanderBorght, A. (223) 47)

MultiScreen® assay
Chemoattractant receptors; Monocytes; HL-60 cells; Granule enzyme release (Tiberghien, F. (223) 63)

Murine IL-18
Cytokine; Bioassay; Human cells; Recombinant DNA (Taniguchi, M. (217) 97)

Mycobacteria
Mycothiol; Immunoassay (Unson, M.D. (214) 29)

Mycothiol
Immunoassay; Mycobacteria (Unson, M.D. (214) 29)

N

Natural killer activity
Cell-mediated cytotoxicity; NK; CTL; AlamarBlue; Fluorescence (Nociari, M.M. (213) 157)

Natural killer cell assay
Whole blood; NK cells; K562 erythroleukaemic cells (Bromelow, K.V. (217) 177)

Nature of epitopes
Immunological specificity; Cross-reactions; Antibody structure; Antigenicity (Van Regenmortel, M.H.V. (216) 37)

Naural autoantibodies
Autoreactivity; Repertoires; Immunoglobulins (Lacroix-Desmazes, S. (216) 117)

Necrosis
Apoptosis; TUNEL; Trypan blue; Bronchoalveolar lavage; HL-60 (Pantelidis, P. (214) 209)

Eosinophil; Apoptosis; Annexin V; Kimura stain (Walsh, G.M. (217) 153)

Neutrophil
Leukocyte; Migration; Chemotaxis; Interleukin-8; C5a; Fluorescence; Calcein AM (Frevert, C.W. (213) 41)

Respiratory burst; Flow cytometry; Dihydrorhodamine (Richardson, M.P. (219) 187)

Neutrophil activation
Endotoxin bioassay; Chemiluminescence (Romaschin, A.D. (212) 169)

Neutrophils
CD11b; Human; Flow cytometry; Activation; Cyto-Chex™ (Saxton, J.M. (214) 11)

Transmigration assay; Endothelium (Gröger, M. (222) 101)

N^{ε}-(carboxymethyl)lysine (CML)
AGEs, anti-AGE antibody; Glycoxidation; Enzyme linked immunosorbent assay (ELISA) (Ikeda, K. (215) 95)

Nitrocellulose particles
Fc receptor; Receptor aggregation; Signal transduction; IgG; IgA (Gulle, H. (214) 199)

NK
Cell-mediated cytotoxicity; Natural killer activity; CTL; Alamar-Blue; Fluorescence (Nociari, M.M. (213) 157)

NK cell receptors
Tissue typing; Transplantation immunology; HLA-Cw; NK cells (Frohn, C. (218) 155)

NK cells
Whole blood; Natural killer cell assay; K562 erythroleukaemic cells (Bromelow, K.V. (217) 177)

Tissue typing; Transplantation immunology; HLA-Cw; NK cell receptors (Frohn, C. (218) 155)

NKG2A
Tolerization; HFE; HLA-H; β_2-microglobulin; CD94 (Lebrón, J.A. (222) 59)

Nucleic acid population analysis
DNA heteroduplex; T-cell receptor repertoire; Immune response (Shen, D.-F. (215) 113)

Nucleic acid sequence based amplification
Tumour necrosis factor-α; Messenger ribonucleic acid detection (Darke, B.M. (212) 19)

O

OCD
D8/17; Flow cytometry (Chapman, F. (219) 181)

Olea europaea
Ole e 1; IgE; Allergens; Standardization; Pollen; Skin test (Boluda, L. (223) 17)

Ole e 1
Olea europaea; IgE; Allergens; Standardization; Pollen; Skin test (Boluda, L. (223) 17)

Oligonucleotide probe
rRNA; Immunolabelling; Bacterial identification (Ramage, G. (212) 139)

Oligonucleotide probes
In situ hybridization; B cells; Heavy chain variable gene family (Rundle, C.H. (218) 31)

Oligosaccharides
Human; Antibodies; Immunoconjugates; Immunotherapy (Qu, Z. (213) 131)

O-linked glycoproteins
Jacalin; Lectin; Immunoglobulin A; $CD4^+$ T lymphocytes; IgA nephropathy (Kabir, S. (212) 193)

O^6-methylguanine–DNA methyltransferase
Immuno-PCR assay; ELISA; Ultrasensitive detection; Peptide detection; O^6-methylguanosine; Pyruvate dehydrogenase complex; DNA adducts; DNA repair (Case, M.C. (223) 93)

O^6-methylguanosine
Immuno-PCR assay; ELISA; Ultrasensitive detection; Peptide detection; O^6-methylguanine–DNA methyltransferase; Pyruvate dehydrogenase complex; DNA adducts; DNA repair (Case, M.C. (223) 93)

On-line
Fatty acid-binding protein; Displacement immunoassay; Immunosensor (Kaptein, W.A. (217) 103)

Oral vaccination
Plasmid extraction; Electroporation; Lactic acid bacteria; Mucosal tolerance; EAE (Maassen, C.B.M. (223) 131)

Organ culture
Thymus; Thymocyte; Stromal cells (Anderson, G. (216) 155)

Orientation assay
Locomotion; Chemotaxis; Filter assay; Chemokinesis; Visual assay; Polarization assay; Collagen; Fibrin gels (Wilkinson, P.C. (216) 139)

Ovarian cancer
Semiquantitative RT-PCR; Cytokines (Nash, M.A. (219) 169)

P

Paclitaxel
Anti-cancer drugs; *Erwinia taxi*; Fluorescence polarization immunoassay; Serum; Crude extract; *Taxus* (Bicamumpaka, C. (212) 1)

p24 antigen
Immune complex dissociation; Quantitative antigen detection; HIV-1 infection; ELISA (Steindl, F. (217) 143)

Papain
PicoGreen; Hoechst 33342; Propidium iodide; Primary cell cultures; Cell number quantification; Fluorescence assay (Blaheta, R.A. (211) 159)

Paraffin wax embedded tissue
Monoclonal antibodies; Immunohistochemistry; Immunoblotting (Moran, E. (219) 151)

Particle-enhanced immunoassay
IgG and $F(ab')_2$ antibodies; Hydration forces; Colloidal stability (Molina-Bolívar, J.A. (211) 87)

***p*-Azophenylarsonate**
Phage display; Antibody library; Vectors (Den, W. (222) 45)

PCR-ELISA
TCR expression; TCR V gene usage; Autoimmunity; Multiple sclerosis; Rheumatoid arthritis (VanderBorght, A. (223) 47)

pIII detection
Single chain antibodies; Tetanus toxoid; Phage display; Surface plasmon resonance analysis (Mersmann, M. (220) 51)

PEPSCAN
Bovine beta lactoglobulin; Epitope mapping; Phage display; Species/animals (Williams, S.C. (213) 1)

Peptide
Monoclonal antibody; ELISA; Binding capacity; Solid-phase affinity; Liquid-phase affinity (Loomans, E.E.M.G. (221) 119)

Peptide binding
Europium; Major histocompatibility complex; Antigen presentation (Jensen, P.E. (215) 71)

Peptide detection
Immuno-PCR assay; ELISA; Ultrasensitive detection; O^6-methylguanine–DNA methyltransferase; O^6-methylguanosine; Pyruvate dehydrogenase complex; DNA adducts; DNA repair (Case, M.C. (223) 93)

Peptide epitopes
Affinity chromatography; Phage display; Monospecific antibody (Smith, G.P. (215) 151)

Peptide library
Immunoglobulin; Phage display; Combinatorial (Krook, M. (221) 151)

Peptide mediated import
Antennapedia; Transfection; Lymphocyte; Electroporation (Fenton, M. (212) 41)

Peptide-tag
g3p; Bacteriophage M13; Phage display; Single chain antibody; Affinity purification (Beckmann, C. (212) 131)

Peripheral blood leukocytes
Vaccinia virus; Green fluorescent protein; Virus tropism (Domínguez, J. (220) 115)

Peripheral blood mononuclear cells
Branched DNA (bDNA); Cytokine mRNA quantification (Shen, L.-P. (215) 123)

Permeabilization
Glucocorticoid receptor (GCR); Monoclonal antibody (mAb); Intracellular flow cytometry (Berki, T. (214) 19)

Peroxidase
Heterogeneous non-competitive flow immunoassay; Alkaline phosphatase; Fluorescein; Digoxin; Digoxigenin; Fluorescence (Lindgren, A. (211) 33)

p24 LAI
ELISA; IgG; IgA; HIV-1; gp120 MN; Mucosal immunity (Raux, M. (222) 111)

Phage display
g3p; Peptide-tag; Bacteriophage M13; Single chain antibody; Affinity purification (Beckmann, C. (212) 131)

Bovine beta lactoglobulin; Epitope mapping; PEPSCAN; Species/animals (Williams, S.C. (213) 1)

Rabbit immunoglobulins; Fab fragments; Alkaline phosphatase; Recombinant antibody (Foti, M. (213) 201)

Affinity chromatography; Peptide epitopes; Monospecific antibody (Smith, G.P. (215) 151)

Single-chain Fv; Protein–carbohydrate interactions; Surface plasmon resonance (MacKenzie, R. (220) 39)

Single chain antibodies; pIII detection; Tetanus toxoid; Surface plasmon resonance analysis (Mersmann, M. (220) 51)

Recombinant antibody; *gpVIII*; Affinity binding (Chappel, J.A. (221) 25)

Antibodies; MHC; T-cell receptors; Immunochemistry (Weidanz, J.A. (221) 59)

Immunoglobulin; Combinatorial; Peptide library (Krook, M. (221) 151)

Antibody library; Vectors; *p*-Azophenylarsonate (Den, W. (222) 45)

Recombinant Fab; Pseudouridine; Serum sample; Inhibition ELISA (Itoh, K. (223) 107)

Phage display technique
Recombinant scFv; Anti-idiotypic antibodies; CD30 (Hombach, A. (218) 53)

Phagosomes
Macrophages; Flow cytometry; MHC (Ramachandra, L. (213) 53)

Pharmacokinetics
Monoclonal antibody; Blocking ELISA; Adjuvant; Polysaccharide; Vaccine (Hilgers, L.A.Th. (218) 95)

Phenotyping
Apoptosis; Flow cytometry; Intracellular staining; Cell permeabilization (Lecoeur, H. (217) 11)

pHi
Apoptosis; Flow cytometry; Culture monitoring; *bcl-2*; Hybridoma; Annexin V (Ishaque, A. (221) 43)

Phosphocholine
Affinity constant; Colchicine; Protein A (O'Hare, T. (218) 161)

Phosphorylation
α B-crystallin; Stress proteins; Purification (Van Noort, J.M. (221) 159)

Photosensitization
Immunotargeting; Monoclonal antibody conjugate; T lymphocyte; Thy-1 (Berki, T. (211) 139)

Phycobiliproteins
Beads; Latex; Epidermal growth factor receptor; CD3; CD4; Microspheres (Bhalgat, M.K. (219) 57)

PicoGreen
Hoechst 33342; Propidium iodide; Papain; Primary cell cultures; Cell number quantification; Fluorescence assay (Blaheta, R.A. (211) 159)

Pig
B cell antigens; Follicular dendritic cells; Lymphocytes; Monoclonal antibodies; SWC7 (Bullido, R. (222) 1)

PK15 cells
Two-color fluorescence assay; Reliable cell-culture model of HAR (Neethling, F.A. (222) 31)

PKH26
Flow cytometry; Subpopulation (Allsopp, C.E.M. (214) 175)

Plant virus chimera
HIV-1; gp41; Intranasal vaccine; Vaccine; Cowpea mosaic virus; Antibody; IgA; T_H1 response (Durrani, Z. (220) 93)

Plant virus vector and plant-expressed antibody
Monoclonal antibody; Tobacco mosaic virus (Verch, T. (220) 69)

Plasma
CD105-TGFβ complex; ELISA; Breast cancer (Li, C.G. (218) 85)

Plasmid extraction
Electroporation; Lactic acid bacteria; Oral vaccination; Mucosal tolerance; EAE (Maassen, C.B.M. (223) 131)

Plasmodium
Immunoradiometric; Sporozoite; HepG2; Quantification (Sinnis, P. (221) 17)

PNGase F
Glycosylation; Immunoglobulin; HPLC; HPAEC; 2-AB and 2-AP labelled oligosaccharides; Biogel P4; Lectin binding assay; Glycoamidase A (Routier, F.H. (213) 113)

Pokeweed mitogen
Cytolytic T lymphocytes; Vaccinia virus; Equine infectious anemia virus; Equine (Hammond, S.A. (213) 73)

Polarization assay
Locomotion; Chemotaxis; Filter assay; Chemokinesis; Visual assay; Collagen; Fibrin gels; Orientation assay (Wilkinson, P.C. (216) 139)

Pollen
Olea europaea; Ole e 1; IgE; Allergens; Standardization; Skin test (Boluda, L. (223) 17)

Polyclonal antisera
Melanoma antigen; Recombinant anti-cancer vaccines; Gene gun immunization (Surman, D.R. (214) 51)

Polyethylene glycol
Semliki Forest Virus; Green fluorescent protein; Signal transduction; Protein expression (Arudchandran, R. (222) 197)

Polymerase chain reaction
cDNA library; Fetal thymic organ culture; Thymic stromal cells; Subtractive hybridization (Kim, M.G. (213) 169)

Cytokine; Rat; Digoxigenin (Damoiseaux, J.G.M.C. (217) 185)

Polymeric IgR
Dimeric IgA; Chinese hamster ovary cell; Transfectant (Asano, M. (214) 131)

Polysaccharide
Pharmacokinetics; Monoclonal antibody; Blocking ELISA; Adjuvant; Vaccine (Hilgers, L.A.Th. (218) 95)

Blocking-ELISA; Ficoll; Vaccine; Adjuvant (Hilgers, L.A.Th. (218) 105)

Polystyrene
Surface interaction; Labeled peptide; Tritium label (Loomans, E.E.M.G. (221) 131)

Porcine monocytic cells
Temperature; African swine fever virus (Natale, V.A.I. (214) 165)

Positive affinity-magnetic selection
Ast cells; Gastrointestinal tract; c-kit receptor; CD117 (Shah, P.M. (214) 141)

Prediction limit
Endpoint titer; Cutoff; *t*-Statistic (Frey, A. (221) 35)

Pregnancy
Allergen; Immunoglobulin (Henderson, C.E. (213) 99)

Primary cell cultures
PicoGreen; Hoechst 33342; Propidium iodide; Papain; Cell number quantification; Fluorescence assay (Blaheta, R.A. (211) 159)

Primary response
Dendritic cells; bcr–abl; T lymphocyte lines; Media; Tumour associated antigen (Mannering, S.I. (219) 69)

Primary T cells
Transfection; IL-4; Reporter gene (Huang, H. (215) 173)

Propidium iodide
PicoGreen; Hoechst 33342; Papain; Primary cell cultures; Cell number quantification; Fluorescence assay (Blaheta, R.A. (211) 159)

Protein A
IgG2a antibodies; Differential scanning calorimetry; Stability; Affinity (Kravchuk, Z.I. (217) 131)

Hydatid disease; *Echinococcus*; Colloidal dye; Immunodot assay (Eliades, P. (218) 123)

Phosphocholine; Affinity constant; Colchicine (O'Hare, T. (218) 161)

Proteinase 3
ANCA; Capture ELISA; Human; Mast cell; Wegener's granulomatosis (Sun, J. (211) 111)

Protein–carbohydrate interactions
Glycosphingolipid; Asialo-GM1; Monoclonal antibody; Surface plasmon resonance; Liposomes (Harrison, B.A. (212) 29)

Single-chain Fv; Phage display; Surface plasmon resonance (MacKenzie, R. (220) 39)

Protein expression
Semliki Forest Virus; Polyethylene glycol; Green fluorescent protein; Signal transduction (Arudchandran, R. (222) 197)

Protein function
Homologous recombination; Gene targeting; Immunoglobulin gene; Hybridoma (Ng, P. (214) 81)

Pseudouridine
Phage display; Recombinant Fab; Serum sample; Inhibition ELISA (Itoh, K. (223) 107)

Purification
Body fluids; Sandwich-ELISA; Synapsin I; Synaptophysin (Schlaf, G. (213) 191)

Surfactant proteins; Collectins; Carbohydrate recognition domains; Lung lavage; Amniotic fluid (Strong, P. (220) 139)

αB-crystallin; Stress proteins; Phosphorylation (Van Noort, J.M. (221) 159)

Pyruvate dehydrogenase complex
Immuno-PCR assay; ELISA; Ultrasensitive detection; Peptide detection; O^6-methylguanine–DNA methyltransferase; O^6-methylguanosine; DNA adducts; DNA repair (Case, M.C. (223) 93)

Q

Quantification
Immunoradiometric; Plasmodium; Sporozoite; HepG2 (Sinnis, P. (221) 17)

Quantitation
Yeast burden; Flow cytometry; Viability (Chang, W.L. (211) 51)

RT-PCR; Acute phase proteins; Serum amyloid A protein; Serum amyloid P component; C-reactive protein; Apolipoprotein A (Jensen, L.E. (215) 45)

Apoptosis; Cytotoxicity; Annexin V binding; JAM test (Shounan, Y. (217) 61)

Quantitative antigen detection
Immune complex dissociation; p24 antigen; HIV-1 infection; ELISA (Steindl, F. (217) 143)

Quantitative RT-PCR
mRNA; Cytokine; Bioluminescence; Aequorin; Radioimaging (Actor, J.K. (211) 65)

R

Rabbit immunoglobulins
Phage display; Fab fragments; Alkaline phosphatase; Recombinant antibody (Foti, M. (213) 201)

Rabies neutralising antibody detection
FAVN test (Cliquet, F. (212) 79)

Radio-antigen binding assay
Autoimmunity; MicroSepharose; Islet cell autoantibodies; ROC curve; Type 1 diabetes (Schranz, D.B. (213) 87)

Radioimaging
Quantitative RT-PCR; mRNA; Cytokine; Bioluminescence; Aequorin (Actor, J.K. (211) 65)

Rapid method
Solid phase immunoassay; Microplate; Magnetic beads; Bacteria; Detection (Yu, H. (218) 1)

Rat
Cytokine; Polymerase chain reaction; Digoxigenin (Damoiseaux, J.G.M.C. (217) 185)

IL-4; Bioassay (Ramírez, F. (221) 141)

Rat infection model
F. hepatica; Gut migration (Van Milligen, F.J. (213) 183)

Rat–mouse chimera
CD45; Flow cytometry (Balázs, M. (218) 117)

Real-time biomolecular interaction analysis (BIA)
Monoclonal antibody; Urokinase plasminogen activator receptor; Competitive/noncompetitive inhibition; Urokinase (EC 3.4.21.73) (List, K. (222) 125)

Receptor
Flow cytometry; Heat-stable enterotoxin; *Escherichia coli* (Al-Majali, A.M. (222) 65)

Receptor aggregation
Nitrocellulose particles; Fc receptor; Signal transduction; IgG; IgA (Gulle, H. (214) 199)

Recombinant antibody
Rabbit immunoglobulins; Phage display; Fab fragments; Alkaline phosphatase (Foti, M. (213) 201)

Phage display; *gpVIII*; Affinity binding (Chappel, J.A. (221) 25)

Recombinant anti-cancer vaccines
Melanoma antigen; Gene gun immunization; Polyclonal antisera (Surman, D.R. (214) 51)

Recombinant DNA
Cytokine; Bioassay; Murine IL-18; Human cells (Taniguchi, M. (217) 97)

Recombinant DNA technology
Cytokines; Standardization; Assays (Mire-Sluis, A.R. (216) 103)

Recombinant Fab
Phage display; Pseudouridine; Serum sample; Inhibition ELISA (Itoh, K. (223) 107)

Recombinant immunogen
Expression plasmid; Fusion protein; Hydrophobic tag; Iscoms (Andersson, C. (222) 171)

Recombinant protein
Albumin binding protein; Affinity of albumin binding protein; Borna disease virus; BIACORE; ELISA; Immobilization of protein (Baumann, S. (221) 95)

Recombinant scFv
Anti-idiotypic antibodies; CD30; Phage display technique (Hombach, A. (218) 53)

Recombitant MHC
MHC class I multimers; T cell receptor-specific probes; Flow cytometry (Walter, J.B. (214) 41)

Refolding
Single chain Fv; Bacterial expression; Insect expression; *Drosophila melanogaster*; E-selectin; Adhesion molecules; Antibody engineering (Mahiouz, D.L. (212) 149)

scFv; Inclusion body; Glutathione; Human antibody (Tsumoto, K. (219) 119)

Relative fluorescence intensity
Antibody; Fluorescence linked immunofiltration assay; Heparin-induced thrombocytopenia (Wang, L. (222) 93)

Reliable cell-culture model of HAR
Two-color fluorescence assay; PK15 cells (Neethling, F.A. (222) 31)

Repertoires
Naural autoantibodies; Autoreactivity; Immunoglobulins (Lacroix-Desmazes, S. (216) 117)

Reporter gene
Transfection; IL-4; Primary T cells (Huang, H. (215) 173)

Human interleukin-4; Human growth hormone cDNA; Germline ε transcript promoter (Jenh, C.-H. (217) 87)

Reproducibility
TNF-α; IL10; Whole blood culture (Van der Linden, M.W. (218) 63)

Respiratory burst
Neutrophil; Flow cytometry; Dihydrorhodamine (Richardson, M.P. (219) 187)

Reversed micelles
4-Acetyl benzoic acid; AOT; Mixed anhydride method; Lipid hapten; Conjugation; ELISA (Pauillac, S. (220) 105)

Rheumatoid arthritis
Monocyte; Isolation; Cytokine (Rodenburg, R.J.T. (221) 169)

TCR expression; TCR V gene usage; PCR-ELISA; Autoimmunity; Multiple sclerosis (VanderBorght, A. (223) 47)

rRNA
Oligonucleotide probe; Immunolabelling; Bacterial identification (Ramage, G. (212) 139)

ROC curve
Autoimmunity; Radio-antigen binding assay; MicroSepharose; Islet cell autoantibodies; Type 1 diabetes (Schranz, D.B. (213) 87)

RT-PCR
Quantitation; Acute phase proteins; Serum amyloid A protein; Serum amyloid P component; C-reactive protein; Apolipoprotein A (Jensen, L.E. (215) 45)

Cytokine mRNA; Standard curves (Swiderski, C.E. (222) 155)

S

SAA
Collaborative study; International standard (Poole, S. (214) 1)

Saliva
Feces; IgA; IgG; Air-drying (Vetvik, H. (215) 163)

Sandwich-ELISA
Body fluids; Purification; Synapsin I; Synaptophysin (Schlaf, G. (213) 191)

scFv
Refolding; Inclusion body; Glutathione; Human antibody (Tsumoto, K. (219) 119)

Yeast display; T cell activation; Antigen presentation; Biological screening (Cho, B.K. (220) 179)

SCID mouse
Biodistribution; Monoclonal antibodies human; ELISA; Tumor; A549 adenocarcinoma cell line (Arai, K. (217) 79)

SCID / PBL
Immunotoxin; CD3; Lymphoproliferative disease (Clinchy, B. (218) 141)

SDS-PAGE
Diffusion blotting; Electrophoresis; Western blotting (Olsen, I. (220) 77)

Semiquantitative RT-PCR
Ovarian cancer; Cytokines (Nash, M.A. (219) 169)

Semliki Forest Virus
Polyethylene glycol; Green fluorescent protein; Signal transduction; Protein expression (Arudchandran, R. (222) 197)

Sendai virus
Interferon type I; Vesicular stomatitis virus; Virus inactivation (Perler, L. (222) 189)

Sequential oligopeptide carriers
Sm autoantigen; Epitopes; ELISA; Autoantibodies (Petrovas, C.J. (220) 59)

Serial limiting dilution assay
Small sample size; Single-hit poisson model (Macken, C. (222) 13)

Serology
DIG-ELISA; EIA; ELISA; *Campylobacter*; Antibody; Diffusion-in-gel (Gunnarsson, H. (215) 135)

Serum
Anti-cancer drugs; *Erwinia taxi*; Fluorescence polarization immunoassay; Crude extract; Paclitaxel; *Taxus* (Bicamumpaka, C. (212) 1)

Serum amyloid A protein
RT-PCR; Quantitation; Acute phase proteins; Serum amyloid P component; C-reactive protein; Apolipoprotein A (Jensen, L.E. (215) 45)

Serum amyloid P component
RT-PCR; Quantitation; Acute phase proteins; Serum amyloid A protein; C-reactive protein; Apolipoprotein A (Jensen, L.E. (215) 45)

Serum free media
Mixed leukocyte reaction; Cytokines (Bishara, A. (215) 187)

Serum-free medium
In vitro model; Superantigens; T cell differentiation; Th1/Th2; Intracellular cytokines; Flow cytometry (Gehring, S. (219) 85)

Serum sample
Phage display; Recombinant Fab; Pseudouridine; Inhibition ELISA (Itoh, K. (223) 107)

Serum stability
Antibodies; Antigen binding; *Escherichia coli*; $F(ab')_2$; Hinge (Humphreys, D.P. (217) 1)

Sexually transmitted diseases
Female genital tract; Immunoglobulin; Mucosafe; Mucosal antibodies; Wick (Hordnes, K. (220) 151)

Signal transduction
Nitrocellulose particles; Fc receptor; Receptor aggregation; IgG; IgA (Gulle, H. (214) 199)

Semliki Forest Virus; Polyethylene glycol; Green fluorescent protein; Protein expression (Arudchandran, R. (222) 197)

SIL
Tumor infiltrating lymphocyte; Epithelium; Culture; Cervix; Cancer (Jacobs, N. (223) 123)

sIL-4R
IL-4; ELISA (Jung, T. (217) 41)

Simulation
Immunological methods; Statistics; Computer model; Mathematical model; Software; Immunological assays (Merrill, S.J. (216) 69)

Single chain antibodies
pIII detection; Tetanus toxoid; Phage display; Surface plasmon resonance analysis (Mersmann, M. (220) 51)

Single chain antibody
g3p; Peptide-tag; Bacteriophage M13; Phage display; Affinity purification (Beckmann, C. (212) 131)

Single-chain F
Antibody engineering; Expression systems; *Escherichia coli*; Yeast; Insect cells; Mammalian cells (Verma, R. (216) 165)

Single chain Fv
Bacterial expression; Insect expression; *Drosophila melanogaster*; Refolding; E-selectin; Adhesion molecules; Antibody engineering (Mahiouz, D.L. (212) 149)

Single-chain Fv
Phage display; Protein–carbohydrate interactions; Surface plasmon resonance (MacKenzie, R. (220) 39)

Single-hit poisson model
Serial limiting dilution assay; Small sample size (Macken, C. (222) 13)

Skin test
Olea europaea; Ole e 1; IgE; Allergens; Standardization; Pollen (Boluda, L. (223) 17)

Small sample size
Serial limiting dilution assay; Single-hit poisson model (Macken, C. (222) 13)

Sm autoantigen
Epitopes; ELISA; Autoantibodies; Sequential oligopeptide carriers (Petrovas, C.J. (220) 59)

Software
Immunological methods; Statistics; Simulation; Computer model; Mathematical model; Immunological assays (Merrill, S.J. (216) 69)

Solid-phase affinity
Peptide; Monoclonal antibody; ELISA; Binding capacity; Liquid-phase affinity (Loomans, E.E.M.G. (221) 119)

Solid phase immunoassay
Microplate; Magnetic beads; Bacteria; Detection; Rapid method (Yu, H. (218) 1)

Solid-support for fluoroimmunoassays
Heterogeneous fluoroimmunoassay; Fluorescein; Mouse IgG immunofluorometric assay; Thyroxin fluoroimmunoassay; Measurement of fluorescence on solid surface (Kakabakos, S.E. (222) 183)

Soluble ErbB1
EGFR; Epidermal growth factor receptor; ErbB1; Acridinium-linked immunosorbent assay; Acridinium (Baron, A.T. (219) 23)

Soluble IL-6 receptor
IL-6; ELISA; Standardization (Krakauer, T. (219) 161)

Soluble LFA-1
ICAM-1; LFA-1; Inflammation (Tominaga, Y. (212) 61)

Solution hybridisation
HLA-B27; Time-resolved fluorometry; Group-specific amplification; Dried whole blood spot (Välimaa, L. (219) 131)

Somatotropin
Human growth hormone; Insulin potentiator; enzyme immunoassay; Dose-response curve; Monoclonal antibodies (López-Guajardo, C.C. (215) 179)

Species / animals
Bovine beta lactoglobulin; Epitope mapping; Phage display; PEPSCAN (Williams, S.C. (213) 1)

Splenocytes
Superantigen; Staphylococcal enterotoxin B; Interferon-γ; Bacteria; Cell culture (Mason, K.M. (211) 147)

Sporozoite
Immunoradiometric; Plasmodium; HepG2; Quantification (Sinnis, P. (221) 17)

Stability
IgG2a antibodies; Protein A; Differential scanning calorimetry; Affinity (Kravchuk, Z.I. (217) 131)

Stable transfectants
Luciferase; Cell viability; Cell growth; Cytokine assay (Coombe, D.R. (215) 145)

Standard curves
Cytokine mRNA; RT-PCR (Swiderski, C.E. (222) 155)

Standardization
Biological potency; International units; Immunoassays (Thorpe, R. (216) 93)

Recombinant DNA technology; Cytokines; Assays (Mire-Sluis, A.R. (216) 103)

IL-6; ELISA; Soluble IL-6 receptor (Krakauer, T. (219) 161)

Olea europaea; Ole e 1; IgE; Allergens; Pollen; Skin test (Boluda, L. (223) 17)

Staphylococcal enterotoxin B
Superantigen; Interferon-γ; Bacteria; Splenocytes; Cell culture (Mason, K.M. (211) 147)

Statistics
Immunological methods; Simulation; Computer model; Mathematical model; Software; Immunological assays (Merrill, S.J. (216) 69)

Streptococcal protein G
E. coli expression; Fv fragment; Fab fragment; Human serum albumin (König, T. (218) 73)

Stress proteins
αB-crystallin; Purification; Phosphorylation (Van Noort, J.M. (221) 159)

Stromal cells
Thymus; Organ culture; Thymocyte (Anderson, G. (216) 155)

Subpopulation
PKH26; Flow cytometry (Allsopp, C.E.M. (214) 175)

Subtractive hybridization
cDNA library; Fetal thymic organ culture; Polymerase chain reaction; Thymic stromal cells (Kim, M.G. (213) 169)

Sulfated peptide
AFP; LBA; Sulfated tyrosine octamer (Yamagata, Y. (212) 161)

Sulfated tyrosine octamer
AFP; LBA; Sulfated peptide (Yamagata, Y. (212) 161)

Superantigen
Staphylococcal enterotoxin B; Interferon-γ; Bacteria; Splenocytes; Cell culture (Mason, K.M. (211) 147)

Superantigens
In vitro model; T cell differentiation; Th1/Th2; Intracellular cytokines; Flow cytometry; Serum-free medium (Gehring, S. (219) 85)

Surface interaction
Polystyrene; Labeled peptide; Tritium label (Loomans, E.E.M.G. (221) 131)

Surface plasmon resonance
Glycosphingolipid; Asialo-GM1; Monoclonal antibody; Protein–carbohydrate interactions; Liposomes (Harrison, B.A. (212) 29)

Single-chain Fv; Phage display; Protein–carbohydrate interactions (MacKenzie, R. (220) 39)

Immunometric assay; Luteinizing hormone; Avidin–biotin (Pearson, J.E. (221) 87)

Surface plasmon resonance analysis
Single chain antibodies; pIII detection; Tetanus toxoid; Phage display (Mersmann, M. (220) 51)

Surfactant proteins
Purification; Collectins; Carbohydrate recognition domains; Lung lavage; Amniotic fluid (Strong, P. (220) 139)

SWC7
B cell antigens; Follicular dendritic cells; Lymphocytes; Monoclonal antibodies; Pig (Bullido, R. (222) 1)

SYBR green I
DNA assay; Microtitre plate; ELISA (Myers, M.A. (212) 99)

Synapsin I
Body fluids; Purification; Sandwich-ELISA; Synaptophysin (Schlaf, G. (213) 191)

Synaptophysin
Body fluids; Purification; Sandwich-ELISA; Synapsin I (Schlaf, G. (213) 191)

Synthetic peptide library
HLA DRB1*0301; Binding motif; Ligands by random selection; Translational invariance (Jung, C. (219) 139)

Systemic lupus erythematosus
Antigen–antibody complex; Complement receptor 1 (CD35) (Rafnar, B.O. (211) 171)

T

Tat protein
HIV-1; Flow cytometry (Gibellini, D. (221) 107)

Taxus
Anti-cancer drugs; *Erwinia taxi*; Fluorescence polarization immunoassay; Serum; Crude extract; Paclitaxel (Bicamumpaka, C. (212) 1)

T cell
JAM-test; Apoptosis; Fas ligand; Tumor (Böhm, C. (217) 71)

T cell activation
Yeast display; scFv; Antigen presentation; Biological screening (Cho, B.K. (220) 179)

T cell differentiation
In vitro model; Superantigens; Th1/Th2; Intracellular cytokines; Flow cytometry; Serum-free medium (Gehring, S. (219) 85)

T-cell receptor repertoire
DNA heteroduplex; Immune response; Nucleic acid population analysis (Shen, D.-F. (215) 113)

T-cell receptors
Antibodies; MHC; Immunochemistry; Phage display (Weidanz, J.A. (221) 59)

T cell receptor-specific probes
Recombitant MHC; MHC class I multimers; Flow cytometry (Walter, J.B. (214) 41)

T cell stimulation
Microphysiometer; Acidification rates; MHC-peptide; TCR interaction (Arimilli, S. (212) 49)

TCR expression
TCR V gene usage; PCR-ELISA; Autoimmunity; Multiple sclerosis; Rheumatoid arthritis (VanderBorght, A. (223) 47)

TCR interaction
T cell stimulation; Microphysiometer; Acidification rates; MHC-peptide (Arimilli, S. (212) 49)

TCR V gene usage
TCR expression; PCR-ELISA; Autoimmunity; Multiple sclerosis; Rheumatoid arthritis (VanderBorght, A. (223) 47)

Technetium
Lymphocyte; Labelling; Colitis (Jaakkola, K. (214) 187)

Temperature
Porcine monocytic cells; African swine fever virus (Natale, V.A.I. (214) 165)

Tetanus toxoid
Single chain antibodies; pIII detection; Phage display; Surface plasmon resonance analysis (Mersmann, M. (220) 51)

TfR
Biotinylation; MHC; Endocytosis; APC (Turvy, D.N. (212) 9)

Thermal treatment
β-lactoglobulin; Enzyme immunometric assay; Monoclonal antibody; Acetylcholinesterase (Negroni, L. (220) 25)

Thiophilic adsorption
Immunoglobulin; Antibody; Affinity chromatography; Autoantibodies (Scholz, G.H. (219) 109)

Thiophilic chromatography
Immunoglobulin Y (Hansen, P. (215) 1)

Th1 / Th2
In vitro model; Superantigens; T cell differentiation; Intracellular cytokines; Flow cytometry; Serum-free medium (Gehring, S. (219) 85)

Thy-1
Immunotargeting; Photosensitization; Monoclonal antibody conjugate; T lymphocyte (Berki, T. (211) 139)

Thymic stromal cells
cDNA library; Fetal thymic organ culture; Polymerase chain reaction; Subtractive hybridization (Kim, M.G. (213) 169)

Thymocyte
Thymus; Organ culture; Stromal cells (Anderson, G. (216) 155)

Thymus
Organ culture; Thymocyte; Stromal cells (Anderson, G. (216) 155)

Thyroxin fluoroimmunoassay
Heterogeneous fluoroimmunoassay; Fluorescein; Solid-support for fluoroimmunoassays; Mouse IgG immunofluorometric assay; Measurement of fluorescence on solid surface (Kakabakos, S.E. (222) 183)

Time-resolved fluorometry
HLA-B27; Solution hybridisation; Group-specific amplification; Dried whole blood spot (Välimaa, L. (219) 131)

Tissue typing
Transplantation immunology; HLA-Cw; NK cells; NK cell receptors (Frohn, C. (218) 155)

T lymphocyte
Immunotargeting; Photosensitization; Monoclonal antibody conjugate; Thy-1 (Berki, T. (211) 139)

T lymphocyte lines
Dendritic cells; Primary response; bcr–abl; Media; Tumour associated antigen (Mannering, S.I. (219) 69)

T Lymphocytes
Clinical studies; Antigen presentation; Diabetes (Stevens, E.J. (215) 59)

TNF-α
IL10; Whole blood culture; Reproducibility (Van der Linden, M.W. (218) 63)

Tobacco mosaic virus
Monoclonal antibody; Plant virus vector and plant-expressed antibody (Verch, T. (220) 69)

Tolerization
HFE; HLA-H; β_2-microglobulin; CD94; NKG2A (Lebrón, J.A. (222) 59)

Transfectant
Polymeric IgR; Dimeric IgA; Chinese hamster ovary cell (Asano, M. (214) 131)

Transfection
Human macrophages; DEAE-dextran mediated transfection; Luciferase (Mack, K.D. (211) 79)

Peptide mediated import; Antennapedia; Lymphocyte; Electroporation (Fenton, M. (212) 41)

Human eosinophils; Electroporation (Ohyama, H. (215) 105)

IL-4; Reporter gene; Primary T cells (Huang, H. (215) 173)

Transgenic mice
HLA class I; Cytotoxic T cells; β_2 microglobulin (Faulkner, L. (221) 1)

Translational invariance
Synthetic peptide library; HLA DRB1*0301; Binding motif; Ligands by random selection (Jung, C. (219) 139)

Transmigration assay
Endothelium; Neutrophils (Gröger, M. (222) 101)

Transplantation immunology
Tissue typing; HLA-Cw; NK cells; NK cell receptors (Frohn, C. (218) 155)

T_H1 response
HIV-1; gp41; Intranasal vaccine; Vaccine; Plant virus chimera; Cowpea mosaic virus; Antibody; IgA (Durrani, Z. (220) 93)

Triazines
Antibody characterisation; Fluorescence polarisation; Homogenous immunoassay; Atrazine (Önnerfjord, P. (213) 31)

Tritiated thymidine
IL-2 sensitivity; CTLL-2; MTT; Limiting dilution analysis; HTLp (Russell, C.A. (217) 165)

Tritium label
Surface interaction; Polystyrene; Labeled peptide (Loomans, E.E.M.G. (221) 131)

Trypan blue
Apoptosis; Necrosis; TUNEL; Bronchoalveolar lavage; HL-60 (Pantelidis, P. (214) 209)

Trypanosoma cruzi
L_6E_9 myoblasts; Uracil incorporation (Yan, W. (220) 123)

***t*-Statistic**
Endpoint titer; Cutoff; Prediction limit (Frey, A. (221) 35)

Tuberculosis
Whole blood culture; Ex vivo cytokine production; Disease-specific stimulation (Van Crevel, R. (222) 145)

Tumor
JAM-test; Apoptosis; Fas ligand; T cell (Böhm, C. (217) 71)

Biodistribution; Monoclonal antibodies human; ELISA; SCID mouse; A549 adenocarcinoma cell line (Arai, K. (217) 79)

Tumor infiltrating lymphocyte
SIL; Epithelium; Culture; Cervix; Cancer (Jacobs, N. (223) 123)

Tumor necrosis factor (TNF)
Humanized antibody; Complementarity-determining region (CDR); Monoclonal antibody (Nagahira, K. (222) 83)

Tumour associated antigen
Dendritic cells; Primary response; bcr–abl; T lymphocyte lines; Media (Mannering, S.I. (219) 69)

Tumour immunotherapy
B cells; Monoclonal and polyclonal antibodies (Haimovich, J. (214) 113)

Tumour necrosis factor-α
Nucleic acid sequence based amplification; Messenger ribonucleic acid detection (Darke, B.M. (212) 19)

TUNEL
Apoptosis; Necrosis; Trypan blue; Bronchoalveolar lavage; HL-60 (Pantelidis, P. (214) 209)

Two-color fluorescence assay
PK15 cells; Reliable cell-culture model of HAR (Neethling, F.A. (222) 31)

Type 1 diabetes
Autoimmunity; Radio-antigen binding assay; MicroSepharose; Islet cell autoantibodies; ROC curve (Schranz, D.B. (213) 87)

U

Ultrasensitive detection
Immuno-PCR assay; ELISA; Peptide detection; O^6-methylguanine–DNA methyltransferase; O^6-methylguanosine; Pyruvate dehydrogenase complex; DNA adducts; DNA repair (Case, M.C. (223) 93)

Uracil incorporation
Trypanosoma cruzi; L_6E_9 myoblasts (Yan, W. (220) 123)

Urine lymphocytes
Flow cytometry; Kidney transplant rejection (Stachowski, J. (213) 145)

Urokinase (EC 3.4.21.73)
Monoclonal antibody; Real-time biomolecular interaction analysis (BIA); Urokinase plasminogen activator receptor; Competitive/noncompetitive inhibition (List, K. (222) 125)

Urokinase plasminogen activator receptor
Monoclonal antibody; Real-time biomolecular interaction analysis (BIA); Competitive/noncompetitive inhibition; Urokinase (EC 3.4.21.73) (List, K. (222) 125)

UV-B irradiation
BMT; GvHD; HTLp; Alloreactivity; X-irradiation (Russell, C.A. (220) 161)

V

Vaccination
Dendritic cells; Leukocyte apheresis; Immunotherapy (Thurner, B. (223) 1)

Vaccine
Pharmacokinetics; Monoclonal antibody; Blocking ELISA; Adjuvant; Polysaccharide (Hilgers, L.A.Th. (218) 95)

Blocking-ELISA; Ficoll; Polysaccharide; Adjuvant (Hilgers, L.A.Th. (218) 105)

HIV-1; gp41; Intranasal vaccine; Plant virus chimera; Cowpea mosaic virus; Antibody; IgA; T_H1 response (Durrani, Z. (220) 93)

Vaccinia virus
Cytolytic T lymphocytes; Equine infectious anemia virus; Pokeweed mitogen; Equine (Hammond, S.A. (213) 73)

Green fluorescent protein; Peripheral blood leukocytes; Virus tropism (Domínguez, J. (220) 115)

Vectors
Phage display; Antibody library; *p*-Azophenylarsonate (Den, W. (222) 45)

VEGF
ELISA; Human plasma; Immunoassay (Rodriguez, C.R. (219) 45)

Vesicular stomatitis virus
Interferon type I; Sendai virus; Virus inactivation (Perler, L. (222) 189)

Viability
Quantitation; Yeast burden; Flow cytometry (Chang, W.L. (211) 51)

Virology
Cytotoxic T lymphocytes; Concanavalin A; ^{51}Cr release assay (Andrew, M. (213) 103)

Virus inactivation
Interferon type I; Sendai virus; Vesicular stomatitis virus (Perler, L. (222) 189)

Virus inhibition
Antibody-dependent cellular cytotoxicity; Antibody-dependent cell-mediated immunity; Measles (Forthal, D.N. (220) 129)

Virus tropism
Vaccinia virus; Green fluorescent protein; Peripheral blood leukocytes (Domínguez, J. (220) 115)

Viscosity
Association/dissociation rate constants (k_{ass}, k_{diss}); Equilibrium/affinity constant (K_A); β_2-microglobulin; IAsys™; Matrix effects (Morgan, C.L. (217) 51)

Visual assay
Locomotion; Chemotaxis; Filter assay; Chemokinesis; Polarization assay; Collagen; Fibrin gels; Orientation assay (Wilkinson, P.C. (216) 139)

W

Weak affinity chromatography
Hybridoma screening; Monoclonal antibodies; HPLC; High performance liquid affinity chromatography (Leickt, L. (220) 19)

Weak affinity chromatography (WAC)
Low affinity monoclonal IgM antibody; Digoxin (Strandh, M. (214) 73)

Wegener's granulomatosis
ANCA; Capture ELISA; Human; Mast cell; Proteinase 3 (Sun, J. (211) 111)

Western blotting
SDS-PAGE; Diffusion blotting; Electrophoresis (Olsen, I. (220) 77)

Whole blood
Natural killer cell assay; NK cells; K562 erythroleukaemic cells (Bromelow, K.V. (217) 177)

Whole blood activation assay
Flow cytometry; Antigen-specific activation; Cytokine production; Cytomegalovirus (Suni, M.A. (212) 89)

Whole blood culture
TNF-α; IL10; Reproducibility (Van der Linden, M.W. (218) 63)

Ex vivo cytokine production; Disease-specific stimulation; Tuberculosis (Van Crevel, R. (222) 145)

Wick
Female genital tract; Immunoglobulin; Mucosafe; Mucosal antibodies; Sexually transmitted diseases (Hordnes, K. (220) 151)

X

X-irradiation
BMT; GvHD; HTLp; Alloreactivity; UV-B irradiation (Russell, C.A. (220) 161)

Y

Yeast
Antibody engineering; Expression systems; *Escherichia coli*; Insect cells; Mammalian cells; Single-chain F (Verma, R. (216) 165)

Yeast burden
Quantitation; Flow cytometry; Viability (Chang, W.L. (211) 51)

Yeast display
scFv; T cell activation; Antigen presentation; Biological screening (Cho, B.K. (220) 179)

Yersinia enterocolitica
Macrophage; Killing; Invasion; *E. coli* (De Koning-Ward, T.F. (215) 39)

Yolk antibodies
Elution; ELISA; Antibody–antigen interactions; Immunoaffinity chromatography (Kummer, A. (211) 125)

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Manuscripts should be typewritten with double spacing and wide margins. Words to be printed in '*italics*' should be underlined. The metric system is to be used throughout. **Authors in Japan please note:** Upon request, Elsevier Science Japan will provide authors with a list of people who can check and improve the English of their paper (*before submission*). Please contact our Tokyo office: Elsevier Science K.K, 1-9-15 Higashi-Azabu, Minato-ku, Tokyo 106-0044; Tel. (03)-5561-5032; Fax (03)-5561-5045.

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For the initial submission of manuscripts for consideration, hardcopies are sufficient. For the processing of **accepted papers**, electronic versions are preferred. After **final acceptance**, your

disk plus one, final and exactly matching printed version should be submitted together. Double density (DD) or high density (HD) diskettes ($3\frac{1}{2}$ or $5\frac{1}{4}$ inch) are acceptable. It is important that the file saved is in the native format of the wordprocessor program used. Label the disk with the name of the computer and wordprocessing package used, your name, and the name of the file on the disk. Further information may be obtained from the Publisher.

Title page

The title page should be a separate sheet, and should include: the title, the name(s) of the author(s) and their affiliations. Please indicate in a footnote the author to whom correspondence and proofs should be sent stating her/his full postal address, telephone and fax numbers and e-mail address. The abbreviations used in the paper should be listed in a separate footnote.

Abstract

The abstract, not more than 5% of the length of the article, should be on a separate sheet. It will appear at the beginning of the paper.

Key words

Key words should be provided at the foot of the abstract. Normally 3–6 items should be included.

References

References in the text start with the name of the author(s), followed by the publication date in brackets, e.g.: 'Rossi (1985) has shown the importance of ...', or, '... has been described (Rossi, 1985; Brown et al., 1986) ...', using date order.

The references in the reference list should be in alphabetical order and typed double-spaced on sheets separate from the text.

References to journals should contain names and initials of the author(s), year of publication, article title, abbreviation of the name of the journal according to the *List of Serial Title Word Abbreviations* (International Serials Data System, 20, rue Bachaumont, 75002 Paris, France. ISBN 2-904938-02-8), volume number and page number. References to books should also include the title (of series and volume), initials and names of the editor(s) and publisher and place of publication.

Examples

Anderson, W.H., Davidson, T.M. and Broide, D.H. (1996) Mast cell TNF mRNA expression in nasal mucosa demonstrated by in situ hybridization: a comparison of mast cell detection methods. J. Immunol. Methods 189, 145.

Larsson, L.-I. (1988) Immunocytochemistry: Theory and Practice. CRC Press, Boca Raton, FL.

Modrow, S. and Wolf, H. (1990) Use of synthetic peptides as diagnostic reagents in virology. In: M.H.V. Van Regenmortel and A.R. Neurath (Eds.) Immunochemistry of Viruses II: The basis for serodiagnosis and vaccines. Elsevier, Amsterdam, p. 83.

Tables and figures

Tables should be compiled on separate sheets and numbered in Roman numerals.

Three sets of figures are to be submitted. At least one set must be of publication quality and the other two sets must be clear enough to be useful to the referees. Figures should be completely lettered, the size of the lettering being appropriate, taking into account the necessary reduction in size (preferably not more than one third). The page format should be considered in designing the figures. The figures should be numbered in Arabic numerals.

Photographs must be of good quality, printed on glossy paper. Photocopies of photomicrographs are not acceptable. Colour photographs are accepted but the contributor must meet the extra costs incurred.

Tables, figures and photographs should be clearly marked on the reverse side with the number, author's name and orientation (top); use a soft pencil or preferably a felt-tipped pen for marking photographs. Legends should be supplied on separate sheets.

Software notices

(1) Software submitted to this section must be noncommercial and of use to immunologic laboratories. It should involve methods of data analysis and/or visualization, or utilize a novel approach to techniques within the scope of the Journal of Immunological Methods.

(2) By submitting software, the authors agree to allow unlimited distribution of the software and documentation, if accepted. Actual distribution is coordinated through the software notice editor. A directory of available software will be listed periodically in the journal, and updates submitted by the original authors will be automatically added to the directory.

(3) Submission of software to be considered in the software notice section is to be made directly to the software notice editor, Stephen J. Merrill, *Department of Mathematics, Statistics and Computer Science, Marquette University, P.O. Box 1881, Milwaukee, WI 53201-1881, USA*, and should consist of:

(i) two copies of the source code and/or binaries (compiled version);

(ii) one printed and one machine-readable (disk) version of the documentation;

(iii) a 1–2 page description of the software including the following: title of the software package, primary purpose, type of computer, hardware/memory requirements, a short example illustrating its use, and all necessary references. The actual 'notice' will be an edited version of this description. The description should be looked on as an item which may be referenced in other papers.

(4) The software, documentation, and description will be quickly reviewed and tested with special attention to completeness of the documentation and ease of use. Necessary revisions will be communicated to the authors by the section editor.

In order to access the Software Archive refer to the *Journal of Immunological Methods*, 153 (1992) 5–6.

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JOURNAL OF IMMUNOLOGICAL METHODS

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On acceptance of a submitted protocol, it will first appear in the Protocols section of the **Journal of Immunological Methods Website** (http//www.elsevier.nl/locate/jimweb). The Protocol will also appear in the next available issue of the printed journal, at which time the electronic version of the Protocol will move into the Protocol Archive section of the **Website**.

Manuscripts

Submission of a Protocol to the **Journal of Immunological Methods** is understood to imply that it has not previously been published and that is is not being considered for publication elsewhere. It will also be assumed that the submission has the approval of all of the listed authors. Submissions should be addressed to:

A.R. Mire-Sluis, *NIBSC, Division of Immunobiology, Blanche Lane, South Mimms, Potters Bar, Herts EN6 3QG, UK.*

The medium of final submission (i.e. after acceptance) is on disk with accompanying revised manuscript (see ''**Electronic manuscripts**'' below). Manuscripts should be written in English and be accompanied by an abstract, theme, topic, and 3–6 key words on a separate page. Initially, three print-out copies of each manuscript should be submitted in double-spaced typing with at least a 4 cm margin on numbered pages of uniform size. Protocols should be divided into numbered sections headed by a caption (Abstract; 1. Type of research; 2. Time required; 3. Materials; 4. Detailed procedure; 5. Results; 6. Discussion; 7. Essential references; 8. References; 9. Quick procedure). The order of subdivision within sections is as follows: Arabic numerals (e.g. 3.1.), lower case roman characters (a, b etc.). Listings should be indicated by dashes. In order to ensure timely publication, no revisions or up-dating will be incorporated after the manuscripts has been accepted and sent to the Publisher. Please note that the past tense is not to be used in writing a Protocol.

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Electronic manuscripts have several advantages: there is no need for the re-keying of text, thereby avoiding the possibility of introducing errors and resulting in reliable and fast delivery of proofs. The preferred storage medium is a 3.5 inch disk in MS-DOS format, although other systems are also supported, e.g. NEC and Macintosh (in the latter case, save your file in the usual manner, do not use the option ''save in MS-DOS format''). ***After final acceptance***, your disk plus one final, printed and exactly matching version (as a printout) should be submitted together to the Editor. It is important that the file on disk and the printout are identical. Please specify the type of computer and word processing package used (do not convert your text file to plain ASCII). Ensure that the letter ''l'' and the digit ''1'' (also letter ''O'' and digit ''0'') have been used properly, and format your article (tabs, indents, etc.) consistently. Characters not available on your word processor (Greek letters, mathematical symbols, etc.) should not be left open, but indicated by a unique code (e.g. gralpha, @, #, etc. for the Greek letter α). Such codes should be used consistently throughout the entire text. Please make a list of such codes and provide a key. Do not allow your word processor to introduce word splits and do not use a ''justified'' lay-out. Please adhere strictly to the general instruc-

tions on styles/arrangement and, in particular, the reference style of the journal. Tables and illustrations will be handled conventionally; the latter should be submitted as original drawings or glossy prints. Further information may be obtained from the publisher.

Animal welfare

Authors describing Protocols using experimental animals must state that their care is in accordance with institutional guidelines. For animals subjected to invasive procedures, the anesthetic, analgesic and tranquilizing agents used, as well as the amounts and frequency of administration, must be stated.

Organization of a Protocol

Title page

The title page should contain the following items: (i) complete title (preferably no chemical formulas or arbitrary abbreviations); (ii) full names of all authors; (iii) complete affiliations of all authors; (iv) the number of text pages of the whole manuscript (including figures and tables) and the number of figures and tables; (v) the name and complete postal address of the corresponding author to whom proofs should be sent (including telephone number, facsimile number and electronic mail address); (vi) acknowledgements. A list of any abbreviations used should be provided as a separate footnote.

Abstract

This should provide a concise description of the purpose of the Protocol and should not exceed 200 words.

Keywords

Please provide 3–6 keywords at the foot of the abstract.

1. Type of research

In this section, relevant published studies should be described concisely in list form preceded by roman lower case numeral characters. The published studies should be appropriately cited.

2. Time required

An estimation of the time required to run the protocol should be given per separate step and for the whole protocol.

3. Materials

The materials to be used should be described in sufficient detail for the protocol to be replicated. Animal information should include: breed, breeder, sex, age, weight and the maintenance conditions. Furthermore, this section should include sub-sections on: (i) Special equipment and (ii) Chemicals and reagents. Any special equipment required should be mentioned, including details of model type/number. The source or supplier of special equipment should also be stated, in parentheses (and with full addresses), after mentioning the equipment for the first time. A listing (preceded by dashes) of chemicals and reagents to be used should be provided, with their sources or suppliers (with full addresses). For drugs, generic names should be used; trade names may be given in brackets where the drug is first mentioned. In the case of new drugs or chemicals, a full chemical description (formula) should be given. The form of the drug used should be indicated.

4. Detailed procedure

This section should include an extensive, detailed and stepwise description of the procedures to be used. The individual steps should be described as a list of instructions preceded by roman lower case numeral characters and correspond with the steps described under "**Quick procedure**" below.

5. Results

In this section the expected results should be described clearly and concisely, and in logical order without extended discussion of their significance. If necessary for clarity, the results can be supplemented by photographs or diagrams.

6. Discussion

This section should present an assessment of the protocol, problems which may be encountered, and alternative or support protocols. This section should be divided into two parts: (i) *Trouble-shooting* and (ii) *Alternative and Support Protocols*. Trouble-shooting: Problems that may have been encountered during any of the procedures should be discussed concisely, and solutions suggested. Alternative methods for replacing steps in the protocol should be mentioned in sufficient detail, accompanied by appropriate citation of the literature. If appropriate support protocols should be mentioned.

7. Essential literature references

This should mention certain essential reading divided into original papers, book chapters and review papers. The full reference citation should appear in the **Literature references** section below: do not therefore cite the full reference, but just list the reference number. The total number of references in this section should not exceed 10.

8. Literature references

Citation of literature references in the text should be given at the appropriate places using name and year (Harvard System). More than one paper from the same author in the same year must be identified by the letters a, b, c, etc, placed after the year of publication. In the text, when referring to a work by more than two authors, the name of the first author should be followed by et al. All references cited in the text should be listed at the end of the manuscript on a separate page (also double-spaced) arranged in alphabetical order by first author. They should consist of names and initials of all authors, year of publication (in brackets), title of paper referred to, abbreviated title of periodical, volume number and page number of the paper. The abbreviations of journal titles should conform to those adopted by List of Serial Title Word Abbreviations, CIEPS/ISDS, Paris, 1985 (ISBN 2-904938-02-8). References to books should also include the title (of series and volume), initials and names of the editor(s) and, between brackets, publisher and place of publication. Periodicals, books and multi-author books should accord with the following examples:

Examples:

Anderson, W.H., Davidson, T.M. and Broide, D.H. (1996) Mast cell TNF mRNA expression in nasal mucosa demonstrated by in situ hybridization: a comparison of mast cell detection methods. J. Immunol. Methods 189, 145.

Larsson, L.-I. (1988) Immunocytochemistry: Theory and Practice. CRC Press, Boca Raton, FL.

Modrow, S. and Wolf, H. (1990) Use of synthetic peptides as diagnostic reagents in virology. In: M.H.V. Van Regenmortel and A.R. Neurath (Eds.) Immunochemistry of Viruses II: The basis for serodiagnosis and vaccines. Elsevier, Amsterdam, p. 83.

This journal should be cited in lists as **J. Immunol. Methods** with the prefix capital "P" being added to the page numbers. Should you wish to cite the Protocol before the printed reference is available, please cite an article as: **Authors, Year, Title, J. Immunol. Methods Website, Protocol "x"**.

9. Quick procedure

This section should describe the protocol in a concise, stepwise manner. The individual steps should be described in list form preceded by roman lower case numeral characters and correspond with the steps described under Detailed procedure. This section should contain basic, essential information for the protocol to be replicated successfully.

Illustrations

All illustrations must be submitted in triplicate as unmounted glossy photographs and reach the Editor in a form and condition suitable for reproduction. If figures are not to be reduced in size their format should not exceed 13.0 × 20 cm. Lettering should be clear and of adequate size to be legible after reduction (2–6 mm). Professional lettering is preferred, but if this is not possible, an overlay displaying the desired labelling should be provided with the figures. Please note that so-called press-on lettering should be avoided since this is likely to get damaged during handling and photographic processing of the prints. Slides taken from labelled prints are also acceptable. The illustrations should bear the author's name, the orientation (top, bottom etc.) and be numbered in Arabic numerals according to the sequence of appearance in the text, where they are referred to as Fig. 1, Fig. 2, etc. *Line drawings* should be in black ink on drawing or tracing paper or glossy sharp photographs of the same. *Photographs* should be supplied as clear black-and-white prints on glossy paper, rather than copies which reproduce detail badly. *Micrographs* should have a scale bar, rather than a magnification factor, in the leged. The degree of reduction will be determined by the Publisher, but in general it should be assumed that the same degree

of reduction will be applied to all figures in the same paper. If illustrations or other small parts of articles or books already published elsewhere are used in papers submitted to **Immunology Protocols**, the written permission of author and publisher concerned must be included with the manuscript. The original source must be indicated in the legend of the illustration in these cases.

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Each illustration must have a title and an explanatory legend. The title should be part of the legend and not be reproduced on the figure itself. The legends should be typed with double-spacing on a separate page at the end of the manuscript and begin with the number of the illustration they refer to: All symbols and abbreviations used in the Figure must be explained.

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JOURNAL OF IMMUNOLOGICAL METHODS

CONTENTS

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AUTHOR AND SUBJECT INDEXES (1998) VOLUMES 211–223

Author index 3

Keyword index 23

Notes to Authors 59

The table of contents of *Journal of Immunological Methods* is available at the journal's web page (www.elsevier.nl/locate/jim) or in the journals own web page (www.elsevier.nl/locate/jimweb)

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